Via Email

Mr. James Justice United States Environmental Protection Agency Region 5 25063 Center Ridge Road Westlake, Ohio 44145

RE: Response to US EPA Letter dated February 24, 2015

Dear Mr. Justice:

We have had an opportunity to review your letter conditionally approving Statoil's draft work plan with modifications ("Approval Letter"), dated February 24, 2015. As way of background, Statoil submitted a second draft of its work plan to EPA for review on December 23, 2014 ("Draft Work Plan"). As confirmed by Ms. Kim Portnoy of EPA on March 2, the date of our receipt of the Approval Letter is March 2, 2015. Accordingly, March 2 is the date that Statoil will use for purposes of calculating the due dates for certain obligations established in the administrative settlement agreement and order on consent ("AOC").

With this letter, we wish to: (1) set forth our understanding of certain items discussed in the Approval Letter, (2) identify concerns with some of the modifications set forth in the Approval Letter, and (3) obtain resolution from EPA regarding items that Statoil has previously raised to EPA. The framework of this letter follows the order of items as set forth in the Approval Letter.

I. Issues related to General Comments

Statoil has previously, through discussions, requested permission from EPA to cease collection and containment activities of the outfalls associated with the well pad (both the pad drainage system and the slope drainage system). Based on all of the available analytical data pertaining to the well pad, there is no basis to continue to collect and contain water from the pad and slope drainage systems. All analytes specified in the Water, Soil, and Sediment Sampling and Analysis Adjustment Plan ("Adjustment Plan") reviewed by the federal On-Scene Coordinator on July 17, 2014, have been below ecological screening levels protective of aquatic life and wildlife. Further, Statoil's final report to the Ohio Department of Natural Resources ("ODNR") pertaining to the Eisenbarth well pad demonstrates that there are no surface, subsurface, or groundwater impacts arising from the June 28, 2014 fire. *See* Attachment 1 (Statoil ODNR Site Investigation Report).

Notably, collection, containment, and disposal activities for the pad and slope drainage systems cost approximately \$130,000 per week. Statoil began implementing these activities on June 29, 2014. Based on a robust, comprehensive data set, there is no reasonable basis to require Statoil to incur such a significant expense. Accordingly, Statoil requests authorization from EPA



to cease these collection and containment activities. If EPA does not believe it is the regulatory agency with the authority to authorize Statoil to discontinue these activities, we request that EPA notify Statoil of its view and the basis for that view.

Further, EPA stated that Statoil can begin "some portions of the work to be performed as part of the AOC . . . prior to the completion of any remedial activities of the Eisenbarth well pad as long as existing containment measures are maintained." *See* Approval Letter at 1. Statoil has completed remedial activities associated with the well pad under the oversight of the ODNR. These activities included the removal of all equipment and debris and the delineation of impacts to soil and groundwater on the pad and its perimeter. No impacts were identified. At this time, ODNR is not requiring any further remedial activities of the pad and Statoil believes that no further investigation or on-site remedial action is warranted, as discussed in Statoil's final report to ODNR. *See* Attachment 1.

Finally, in Statoil's Draft Work Plan, Statoil expressly requested authorization from EPA to discontinue sampling activities under the Adjustment Plan within 3 business days of EPA's approval of the Work Plan. We made this request because once the Draft Work Plan was approved, all sampling and monitoring activities should be governed by the approved Work Plan. Further, Paragraph 16 of the AOC specifies that Statoil "may continue to implement" the Adjustment Plan "as appropriate." Now that the Work Plan has been approved, it is no longer appropriate to continue to implement the Adjustment Plan. Further, these activities cost Statoil approximately \$155,000 per week. EPA's Approval Letter did not address Statoil's request to discontinue sampling under the Adjustment Plan. Accordingly, Statoil renews its request to discontinue sampling activities under the Adjustment Plan and requests that EPA specifically address this request.

II. Issues related to Work Plan Comments

a. Issues related to EPA's Section 15.a.i comments

Statoil does not agree with EPA's view regarding potential migration of TTPC or that additional monitoring for off-site migration of TTPC is necessary. First, as discussed in the Site Investigation Report, soil borings drilled on the pad and its perimeter encountered bedrock beneath the well pad. *See* Attachment 1 at 1, 12. A hard copy of this report with appendices is being sent via First Class Mail. These borings are expected to be representative of all material that could have potentially been impacted by the June 2014 pad incident. Further, as discussed in the final Site Investigation Report, the continuous layer of bedrock provides a natural barrier against the migration of potential onsite constituents deeper into the subsurface. Second, the few *de minimis* detections of TTPC at a depth below the upper four feet of soil are orders of magnitude lower than the action level established for the ODNR investigation. Finally, TTPC has been detected in background samples in various media (e.g., soil and surface water) unrelated to the well pad. Thus, *de minimis* subsurface detections of TTPC are unlikely to be a result of the June 2014 pad incident. Statoil provided an evaluation of the TTPC data in the final report to ODNR, which supports Statoil's view that no further monitoring for TTPC is

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¹ EPA's comment is unclear as to whether Statoil is being asked to monitor only for TTPC or for other constituents.



warranted. *See* Attachment 1, Section 7.0 Data Evaluation, at 13-15. Accordingly, Statoil does not agree that all outfalls and installed monitoring wells should be sampled on a quarterly basis for a year as specified by EPA in comment 1.a. Further, Statoil does not agree it is appropriate to sample private residential wells as specified by EPA in comments 1.b and 1.c. The closest residential well is 900 feet to the south of the well pad, and separated by surface water. Thus it is not physically possible for constituents to migrate from the well pad and reach this residential private well. Further, Statoil's obligation under Section 15.a.i is to monitor for potential migration to Opossum Creek, and these residential wells are not hydraulically connected to Opossum Creek

b. Issues related to EPA's Section 15.a.ii comments

EPA requested clarification from Statoil regarding the proposed sampling locations for Section 15.a.ii. Specifically, EPA requested that Statoil confirm that the 12" HDPE pipe that receives flow from the southern edge of the well pad is covered by a sampling location. EPA also stated that there are four outfalls associated with drainage from the pad.

As a threshold matter, Statoil does not agree that there are four outfalls that drain water from the well pad for the reasons stated in the Draft Work Plan. Four outfalls are associated with the Eisenbarth pad and slopes. Two of these outfalls drain the pad, PD07 and PD10, and two of these outfalls drain the slope for stability purposes, PD03 and SW24. In the Draft Work Plan, PD03 is listed as a sampling point for the southern slope. PD10 is not a viable option for continuous sampling as it is an intermittent stream. Statoil suggests the use of SW02 in addition to the 11 locations listed in the work plan. Additionally, Statoil has recently learned that the pipe under the access road at the entrance to the pad was cut and cemented closed following the incident. Statoil has updated the map (enclosed as Attachment 2) to show the names of the outfalls and the site drainage system.

Finally, for the reasons discussed in Section I, above, Statoil does not agree with comment 4 to Section 15.a.ii that it should be required to sample collection points at the outfalls on a monthly basis until containment is discontinued. In light of the sampling data, there is no basis to continue these monitoring and sampling activities.

c. Issues related to Section 15.a.iii comments

As we understand EPA's comment 1.a, EPA has requested that we change the proposed location of the whole sediment toxicity testing ("WST") so that it is taken from the same location as the sample for the whole effluent toxicity testing ("WET"). We request that EPA confirm our understanding of this comment. Second, EPA requested that Statoil perform chronic WET testing in addition to acute testing. Rather than perform two separate WET tests, i.e., one for acute and one for chronic, Statoil intends to perform the chronic WET test and to extrapolate the data to obtain the acute results. Accordingly, the chronic WET test would be used to address both the chronic and acute criteria.

As requested, Statoil will use two methods specified in EPA's Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater



Invertebrates ("Methods manual"), EPA 600/R-99/064, for WST testing. Statoil will use Test Method 100.4: *Hyalella azteca* 42-d Test for Measuring the Effects of Sediment associated Contaminants on Survival, Growth, and Reproduction. Statoil proposes to use the survival and growth endpoints in the *H. azteca* study at 28 days. The USGS-Columbia Environmental Research Laboratory indicates that a 42-day endpoint is variable and tends to provide little information beyond what is provided by 14-day or 28-day endpoints. (http://pubs.usgs.gov/sir/2013/5125/pdf/sir2013-5125.pdf) *See* Attachment 3, Workshop Summary Report at page 11. In addition, the 28-day endpoint is the most sensitive as noted in Guidance Manual to Support the Assessment of Contaminated Sediments in Freshwater, Estuarine, and Marine Ecosystems in British Columbia; Volume III – Interpretation of the Results of Sediment Quality Investigations

(http://wwww.env.gov.bc.ca/end/remediation/guidance/technical/pdf/x19, v3.pdf). In addition to

(http://www.env.gov.bc.ca/epd/remediation/guidance/technical/pdf/x19_v3.pdf). In addition to the above, Statoil will use Test Method 100.5: Life-cycle Test for Measuring the Effects of Sediment-associated Contaminants on *Chironomus* (dilutus) tentans. For this method, the endpoints that Statoil will use are: 20 day survival, 20 day growth, time to first emergence, total emergence and total survival of adults.

Finally, EPA requested that Statoil determine no-observed-adverse-affect-levels (NOAELs) and lowest-observed-adverse-affect-levels (LOAELs) for the WST testing. We do not agree that these levels are applicable to sediment testing. Based upon discussions with the analytical lab, it is our understanding that NOAELs and LOAELs cannot be calculated for sediments.

EPA requested that the WET and WST tests be conducted in 2015. Statoil seeks clarification regarding the timing of such testing. Specifically, since EPA has requested that Statoil change the location of the WET testing so that it is co-located with the WST testing, it is Statoil's understanding that it may proceed with this aspect of the Work Plan independent of any pad remediation work. In addition, Statoil would like clarification that WET and WST should only be conducted in 2015 and testing in 2016, as suggested by the schedule in the Draft Work Plan, is not necessary. We request EPA's confirmation of our understanding.

III. Issues Related to the Proposed Schedule of Tasks

Pursuant to the AOC, Statoil was required to submit to EPA a schedule for the required removal actions. *See* AOC Paragraph 16(a). Statoil included a Proposed Schedule of Tasks in its Draft Work Plan. *See* Draft Work Plan at 18-19, Table 7. In light of the comments and proposed modifications in EPA's Approval Letter, Statoil believes that the proposed schedule it submitted as part of the Draft Work Plan should also be modified. As mentioned above, Statoil will use the March 2, 2015, approval date as the starting date for certain activities specified in the conditionally approved Work Plan. Statoil proposes the following schedule to address EPA's comments and proposed modifications to the Work Plan:

Description of Actions	Time Required for Task
1. Review and evaluate data collected as	6 weeks after approval of Work Plan by EPA –
of March 2, 2015 for 15.a.i	April 13, 2015



Description of Actions	Time Required for Task
2. Submit report of evaluation of data	8 weeks after approval of Work Plan by EPA –
collected as of March 2, 2015 for 15.a.i	April 27, 2015
3. Review and evaluate data, if any,	We have raised concerns regarding this
specified by EPA in comment 1 to	request; we can discuss an appropriate
15.a.i	schedule once EPA and Statoil have resolved
	this issue
4. Submit report of evaluation of data	We have raised concerns regarding this
specified by EPA in comment 1 to	request; we can discuss an appropriate
15.a.i	schedule once EPA and Statoil have resolved
	this issue
5. Review and evaluate data collected as	14 weeks after approval of Work Plan by EPA
of March 2, 2015 for 15.a.ii	– June 8, 2015
6. Submit report of evaluation of data	16 weeks after approval of Work Plan by EPA
collected as of March 2, 2015 for	– June 22, 2015
15.a.ii	
7. Perform three sampling events to	Not to commence prior to one month following
evaluate surface waters and sediments	discontinuation of containment activities, with
for 15.a.ii	one sampling event in Fall 2015, provided that
	Statoil has been authorized to discontinue
0. D. 1. 1. 1. 1. 1. 1. 1.	containment activities by "Fall 2015"
8. Review and evaluate data specified by	14 weeks from Statoil's receipt of the data
EPA in comments 1-2 to 15.a.ii	from the analytical laboratory for the third
0 0 1 2 6 1 2 6 1	sampling event
9. Submit report of evaluation of data	16 weeks from Statoil's receipt of the data
specified by EPA in comments 1-2 to 15.a.ii	from the analytical laboratory for the third
10. Perform WET and WSTT	sampling event
11. Perform biological assessment	End of 3rd Qtr, 2015 End of 3 rd Qtr, 2016
12. Review and evaluate data for 15.a.iii,	4 th Qtr, 2016
including WET, WSTT, and biological	4 Qu, 2010
assessment	
13. Write report of evaluation of data for	4 th Qtr, 2016
15. white report of evaluation of data for 15.a.iii, including WET, WSTT, and	Ψ (μ, 2010
biological assessment	
ororogical appendiment	

The written thirty day progress reports, as required by Paragraph 19.a, will be submitted on the first day of each month, commencing on April 1, 2015. Statoil requests authorization to submit the progress reports via electronic mail rather than in hard copy as specified in Paragraph 19.b.

* * * * *



Thank you for the opportunity to raise these issues to your attention. We hope to discuss these items with you at your earliest convenience so that we can continue to move forward with implementation of the conditionally approved Work Plan. Please note that we view this letter as an informal process of raising these issues and do not believe this is a formal objection under Paragraph 40 of the AOC.

Sincerely,

Steve Tink

Safety and Sustainability Unit Leader, Marcellus



Site Investigation Report

for the

Ohio Department of Natural Resources

Eisenbarth Well Pad Site

March 10, 2015



TABLE OF CONTENTS

		<u>Page</u>
EXE	CUTIVE SUMMARY	1
1.0	INTRODUCTION	2
2.0	US EPA INVESTIGATION AND WORK PLAN	2
3.0	HEALTH AND SAFETY	5
4.0	SOIL AND GROUNDWATER SAMPLING METHODOLOGY AND ANALYSIS	5
5.0	QUALITY ASSURANCE	10
6.0	WASTE DISPOSAL	11
7.0	DATA EVALUATION	12
8.0	CONCLUSIONS	15

Figures

Figure 1: Site Location Map
Figure 2: Sample Location Map
Figure 3: Pad Cross-Sections
Figure 3A: Cross-Section A-A'
Figure 3B: Cross-Section B-B'
Figure 4: Groundwater Contour Map

Tables

Table 1: Site Activity Summary

Table 2: Site Survey Data

Table 3: Analytical Summary

Table 4: Field Duplicate Location Summary

Table 5: Groundwater Data Summary

Table 6: Soil Results

Table 7: Groundwater Results

Table 8: US EPA Split Soil Sample Results

Appendices:

Appendix A: Boring Logs

Appendix B: Well Construction Diagrams

Appendix C: Analytical Results



EXECUTIVE SUMMARY

The following report details field investigation findings and recommended actions for a June 28, 2014 incident at Statoil's Eisenbarth Pad Site. The Eisenbarth Pad Site is located near Hannibal, Ohio. The June 2014 incident involved a well pad fire that combusted products and equipment stored on-site and released flowback and freshwater used for firefighting from the location.

Investigative on-pad activities followed the procedures outlined in the approved "Eisenbarth Pad – Ohio Operations Incident Sampling and Analysis Plan, Revision 2" (OOI-SAP), prepared by Penn E&R and approved by the Ohio Department of Natural Resources (ODNR) in November 2014. In accordance with this plan, 42 soil borings were drilled on the pad and on the perimeter. Six soil borings were converted into temporary monitoring wells for sampling purposes. All soil borings and monitoring wells were surveyed to determine groundwater flow.

Geologic investigations determined that the soil borings are expected to be representative of all material that could have potentially been impacted by the June 2014 pad incident. The continuous layer of bedrock beneath the pad provides a natural barrier against the migration of any potential onsite constituents ("POSC") deeper into the subsurface. Some *de minimus* detections of TTPC were noted in soils and surface water; however, TTPC was also detected in several background samples at comparable concentrations. Any *de minimis* detections of TTPC are unlikely to be a result of the June 2014 pad incident. Further, none of the soil samples exceed the OEPA Industrial/Commercial program action levels. Drinking Water Standards were chosen as a screening level for groundwater investigations. Other than a slight variation in pH (GP-26), a non-potable well, no other parameters exceeded screening levels.

The data collected during both ODNR and US EPA site activities to date has been compiled and utilized to evaluate the potential need for further removal or restoration activities. Based on the results of this field investigation, the details of which are herein, it is apparent that conditions at the site are naturally attenuating and that there will be no impacts to the soil, stream, sediments, or water from POSCs. Therefore, no further investigation or on-site remedial action is warranted.



1.0 INTRODUCTION

This Site Investigation Report (SIR), prepared by Penn Environmental & Remediation, Inc. (Penn E&R) and Moody and Associates (Moody) on behalf of Statoil USA Onshore Properties, Inc. (Statoil), details findings regarding field investigations at the Eisenbarth Pad located near Hannibal, Ohio following a June 2014 on-site incident.

The objective of this environmental investigation was to field screen, evaluate, collect and analyze soil and water samples to determine the nature and extent of potential impacts to the well pad. Investigative on-pad activities followed the procedures outlined in "Eisenbarth Pad- Ohio Operations Incident Sampling and Analysis Plan, Revision 2" (OOI - SAP), which was prepared by Penn E&R and approved by the ONDR in November 2014.

The approved OOI-SAP outlined the methodology of establishing both on- and near-site soil boring locations for subsurface evaluation, as well as the collection of soil and groundwater samples for laboratory analysis. The OOI-SAP details applicable Potential On-Site Constituents (POSC) (including specific petroleum distillates), the construction and maintenance of all temporary monitoring wells and piezometers, and proposed future actions. This SIR elaborates on the scope of the approved OOI-SAP and outlines the findings since site work has progressed.

2.0 US EPA INVESTIGATION AND WORK PLAN

Completed Activities

Statoil has conducted an investigation with oversight of the US EPA in addition to the sampling conducted under the ODNR program. The directives of the US EPA environmental investigation and sampling included:

- The collection of water, soil, and sediment samples to delineate areas of potential impacts.
- The collection of background surface water, soil, and stream sediment samples to establish a range of background concentrations.
- Address the ongoing monitoring, sampling, and data assessment activities in relation to the Eisenbarth Pad.

The US EPA investigative program, to date, has involved several facets. Drainage pathways downgradient of the Eisenbarth Pad and waterways located downstream of the incident were visually inspected and photo-documented to note any adverse impacts. Water quality samples were collected from runoff flowing off of the pad prior to well shut-in in an effort to characterize source constituents. Additional surface water samples were, and continue to be, collected downstream of the site from select locations on the tributary to Opossum Creek and Opossum Creek.



Surface water samples are decanted directly into laboratory supplied sample containers and submitted to Pace Analytical, a NELAP-accredited laboratory, in Pittsburgh, Pennsylvania. Stream sediment samples were, and continue to be, collected from areas down-gradient of the Eisenbarth location in order to characterize the alluvial sediments, surface soils, and subsurface soils for the presence of Potential On-Site Constituents (POSC).

To characterize the surface and subsurface soils, soil samples were collected from the pad. Off-pad soil samples were collected from preferential run-off pathways from the pad and select stream sampling locations in conjunction with established surface water sampling locations. Subsurface soil samples were collected from potentially impacted areas both on and off of the well pad. In order to investigate any potential subsurface water or liquid migration from the pad and to assess potential surface soil impacts along the downgradient slopes of the well pad, test pits were excavated at various locations down-gradient of the pad. During these excavations, field screening protocols were utilized in addition to laboratory analysis. Appropriate decontamination procedures were undertaken to minimize the potential for off-pad contamination and cross-contamination between individual sampling locations.

Initially, the US EPA water quality samples for surface water were analyzed for the following:

- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs)
- Total Petroleum Hydrocarbons (TPHs)
- Cations
- Anions
- Ethylene Glycol

Initial US EPA samples for sediments were analyzed for:

- VOCs
- SVOCs
- TPHs
- Cations
- Anions
- Ethylene Glycol
- tri-n-butyl tetradecyl phosphonium chloride (TTPC)

On July 17, 2014, the US EPA On-Scene Coordinator approved the reduction of the US EPA required sample parameters for soils, water, and stream sediments to include VOCs, TPH, Anions, and TTPC only. This abbreviated list was implemented on July 19, 2014 and has continued since that time. It should be noted that the US EPA redefined VOCs to include only acetone on July 20, 2014. Below is a table summarizing some of the sampling, containment, remediation and reporting activities that have taken place following the incident.



Table 1: Site Activity Summary

Sampling and monitoring conducted prior to formal Unified Command process

Densometers were evaluated and found to be intact with no signs of radiation outside of background levels

Initial construction of berm in select locations

Pad reclamation activities: identification, collection, profiling, and appropriate disposal of solid and liquid wastes

Monitoring and sampling conducted under guidance of the Environmental Sampling and Analysis Plan (E-SAP), as reviewed by Unified Command

Earthen berm surrounding pad completed; southeast and northwest catch basins converted into recovery sumps

Center for Toxicology and Environmental Health LLC (CTEH) contractors, with piezometers installed at locations with the potential for groundwater interaction

Water, Soil, and Sediment Sampling and Analysis Plan (WSSSAP) Amendment 1.0 reviewed by Unified Command

Sampling under the WSSSAP implemented, replaces E-SAP

Administrative Settlement Agreement Order on Consent for Removal Action per the Eisenbarth Well Pad Site becomes effective

All damaged equipment and the remaining surface debris was removed from the site. The waste was sent to appropriate disposal facilities

"Draft Work Plan for Removal Actions" and the "Health and Safety Plan for the Protection of the Public" submitted to US EPA for review

Submittal of the OOI-SAP Revision 1 for ODNR review

Response received by Statoil from ODNR Re: Review of OOI-SAP

Submittal of OOI-SAP Revision 2

Review and approval of the OOI-SAP Revision No. 2 by ODNR

Began execution of OOI-SAP with On- and near-pad soil boring field activities

Comments received from US EPA in response to the Draft Work Plan

Data collected by Penn E&R from temporary monitoring wells and piezometers prior to full monitoring well development

Monitoring wells and established CTEH piezometers were developed, groundwater data was collected by Penn E&R

Monitoring wells and piezometers were purged and sampled by Penn E&R

Monitoring well and piezometer locations surveyed

Statoil Well Pad Site (Work Plan) resubmitted addressing comments

Statoil Well Pad Site is conditionally approved with modification and is subject to discussion between US EPA and Statoil



Pending Activity

As part of the work plan submitted to US EPA, following the agency's comments, Statoil proposed to conduct whole effluent toxicity (WET) testing. This testing will provide information on any potential health impacts to the ecosystem related to the pad drainage system. Also pursuant to US EPA recommendations, Statoil proposed to conduct a two-phase biological assessment in the fall of 2015 and the summer of 2016 to evaluate population-level parameters (number, species composition, and size distribution) for fish, crayfish, and benthic macroinvertebrates. This testing will be done in accordance with state-specific biological assessment guidelines and protocols by OEPA (OEPA, 1988; OEPA, 1998; OEPA 2009b), which state that biological survey sampling should be conducted during the summer collection period of June 15 through October 15 for the most representative results.

Future US EPA actions will also include Whole Sediment Toxicity Testing (WSTT) of in 2015 and a series of three (3) surface water sampling events on eleven (11) following the discontinuation of containment activities.

3.0 HEALTH AND SAFETY

During all stages of the investigation, contractors and consultants adhered to the site specific Health and Safety Plan (HASP) developed for site activities. All investigative activities were completed in a safe manner approved by on site Statoil representatives and under the conditions detailed in the HASP. A Job Safety Analysis (JSA) and Ground Disturbance Permit (GDP) were each completed and reviewed in the multi-company Tailgate Safety Meeting held on site prior to commencement of work each day.

4.0 SOIL AND GROUNDWATER SAMPLING METHODOLOGY AND ANALYSIS

Per the approved OOI-SAP, soil samples were collected from the pad area following the removal of the drilling equipment and materials from the pad location. The purpose of this sampling was to characterize the surface and subsurface soils and to evaluate for the presence of potential on-site constituents (POSCs).

The POSCs established for the site were previously defined in the OOI-SAP as a result of the CTEH review and evaluation of the Safety Data Sheets (SDS) for the materials stored on the pad at the time of the incident. During this determination, CTEH evaluated the potential toxic characteristics of each of the compounds identified on the SDS and their potential risk to human health and the environment. CTEH also evaluated the SDS for primary analytes for environmental sampling based on quantity present on-site and environmental toxicity. Additionally, samples were analyzed for the presence of tentatively identified compounds (TICs); i.e., chemicals or compounds that may be present but that are not typically reported by US EPA approved method laboratory analysis. The POSCs developed by CTEH were then presented to and agreed upon by Unified Command. POSCs established for the Eisenbarth Pad on-site investigation are:

- acetone
- pH



- petroleum distillates
 - o benzo(a)anthracene
 - o benzo(a)pyrene
 - o benzo(b)fluoranthene
 - o benzo(k)fluoranthene
 - o chrysene
 - o dibenzo(a, h)anthracene
 - o indeno(1,2,3-cd)pyrene
 - o benzene
 - o toluene
 - o ethylbenzene
 - o total xylenes
 - o naphthalene
- isopropanol (also known as isopropyl alcohol)
- tributyl tetradecyl phosphonium chloride (TTPC)

Each sampling component is a key constituent of a product or material that was present on the pad at the time of the incident. Isopropanol testing was established due to the presence of $GasPerm\ 1000$, which had been on location at the time of the incident. TTPC is a compound which comprises up to 10% (w/w) of the biocide BE-9 which was also present. Petroleum distillates would have been on site as FR-66, diesel fuel, motor oil, hydraulic oil, and LGC-36UC, and other products kept on-site. Levels of pH would be influenced by the acidic nature of flowback waters and hydrochloric acid. Some of the initial samples collected during the response had acetone detections. However, unlike constituents above, no known source of acetone was present on site at the time of the incident. Acetone is considered to be a common by-product of combustion.

Based on CTEH's evaluation and Unified Command's approval, no other potential target analytes or TICs beyond the POSCs listed above were determined to be necessary to adequately evaluate the conditions on the Eisenbarth Pad.

Soil Boring Advancement and Temporary Monitoring Well Installation

Per the OOI-SAP, a renewal of the utility One-Call was performed to confirm the presence or absence of underground public utilities prior to commencement of boring activities. A professionally licensed surveyor marked the proposed soil boring locations using labeled stakes prior to initiation of the onsite investigative activities.

Following utility clearance and the boring stake-out, a Ground Disturbance Permit was reviewed on a daily basis by on-site personnel to evaluate the potential for private, on-site utilities that would not have been identified via a One-Call. As a result of this daily review, several borings located along the southern edge of the site were shifted toward the interior of the pad to avoid impacting the existing pad drainage system. Typically these adjustments were less than ten (10) feet from the originally-proposed locations.



Following utility clearances, the soil borings were advanced utilizing split-spoon and hollow-stem auger techniques. All drilling and sampling equipment were decontaminated prior to the initiation of drilling activities and before mobilizing to the next boring location. Drilling and sampling operations were overseen by a Penn E&R field scientist/geologist as well as observed by Moody field scientists and ODNR representatives. All drilling activities were performed by a licensed drilling contractor (Geo-Environmental, Inc.). To accelerate the investigation schedule, up to two drill rigs were operated concurrently. The drill rigs utilized on site were either Central Mine Equipment Company rigs CME-45 and CME-55, or a Diedrich Drill D-50 rig.

The supervising Penn E&R scientist/geologist prepared boring logs to document the materials encountered during the drilling process, and kept a record of daily field activities at the site. It was estimated in the approved OOI-SAP that the borings would likely be advanced to a total depth no greater than 20 feet below the ground surface (bgs) before bedrock refusal or groundwater was encountered. During the performance of the onsite investigation, however, bedrock or groundwater was encountered at depths of up to 43 feet bgs.

During drilling, continuous split spoon samples were collected, and each two (2) foot split spoon soil sample interval was retrieved from the borehole, opened, examined, screened for the potential presence of volatile organic compounds (VOCs) using a calibrated *MiniRAE 3000* photo-ionization detector (PID), and logged for lithologic characteristics, groundwater occurrence, and evidence of impacts (staining, olfactory, etc.). At a minimum, two (2) soil samples were collected from each boring; one (1) from the surface interval (0 to 2-feet bgs), and one (1) from the interval where the highest PID reading or field indication of potential impact was observed. Copies of the boring logs, which include the lithologic description, sample IDs with depth and time, interval-specific PID readings, split spoon return, and auger blow counts for each interval, are provided in **Appendix A**.

When signs of potential groundwater were encountered in a borehole (i.e., wet or saturated conditions), the boring was converted into a temporary groundwater monitoring well to be utilized for the collection of groundwater samples. Borings that were not converted into temporary monitoring wells were backfilled with bentonite chips. Due to observed presence of water during soil boring advancement, temporary monitoring wells were installed at six (6) boring locations: SB-15, SB-20, SB-21, SB-25, SB-27, and SB-31. The monitoring wells were installed within 6.5-inch diameter boreholes and were constructed with 10 foot sections of 2-inch diameter, 0.10-inch slotted screen, with Type #2 filter pack sand extending a minimum of approximately 2 feet above the top of the screened interval. The well casings were completed with 2-inch diameter PVC casing and were sealed with bentonite from the top of the filter pack to the ground surface. Temporary monitoring well construction details are provided in **Appendix B**.

Prior to groundwater sampling, both the temporary monitoring wells and the existing, accessible piezometers previously installed by CTEH were developed and purged. Groundwater level measurements were obtained by Penn E&R representatives. All monitoring wells were developed in order to remove fine-grained materials from the wells and filter packs.



Prior to sample collection, the wells and piezometers were purged by evacuating either three (3) well volumes or by purging the well or piezometer dry. Field parameters (pH, temperature, and conductivity) were evaluated during the development, purging, and sampling process utilizing an YSI Model 556-01. Purge Logs and field parameter readings are included in **Appendix B** and the sample locations in relation to groundwater flow are detailed on the **Figure 4** groundwater contour map. The temporary monitoring wells were constructed and maintained to prevent any potential impacts the subsurface by installing the bentonite seal within the borehole near the ground surface. The temporary monitoring wells and the existing piezometers were sampled at the end of the pad-specific site investigation and remain in place at the time of this SIR. It is anticipated that these wells and piezometers will be properly abandoned in the future to eliminate potential migration pathways.

The final locations of the soil borings, the temporary monitoring wells, and the existing piezometers were professionally surveyed to establish horizontal and vertical points of reference (northings and eastings, and ground surface and top of casing elevations). A summary of the obtained soil boring survey data is provided in **Table 2**, and the locations are identified on **Figure 2**. No additional off-pad sampling beyond that detailed herein was performed as part of this investigation, as previous sampling performed in other off-pad areas did not identify impacts to site soils.

There are six (6) outfalls in the vicinity of the Eisenbarth pad that were examined as part of the investigations, of which two (2) are not associated with pad or slope drainage. The outfall farthest east is associated with a Williams Companies operation, and the outfall to the far west was determined through field observations of on-site engineers to not be associated with any well pad drainage. The outfalls that appeared to have continuous flow without correlating rainfall around the time of the incident were determined to be connected to the subsurface drainage and sump system that was previously installed beneath the Eisenbarth Pad. Due to a historic slope slip at the location, site engineers installed the subsurface drainage system to mitigate the potential for future slips and to control the flow of water in the event that the pad was inundated with a substantial rainfall event over a short period of time. The outfalls with any observable discharge correspond to the following sample location identifiers. The final outfall associated with the Eisenbarth Well Pad (SW-02) has been dry for the duration of monitoring.

'General" Identifier	Sample Location ID	Direction from Pad
• Outfall 1	PD07	West
• Outfall 2	SW24	West
• Outfall 5	PD03	South
 Outfall 6 	SW02	South

These outfalls and catch basins have been monitored since June 28, 2014. Statoil has assessed the outfall drainage and has sampled the water from the outfalls and catch basins as deemed necessary.

Sample Analysis

Based on CTEH's evaluation and in accordance with the approved OOI-SAP, the presence or absence of specific POSCs was investigated within the soil and groundwater samples collected at the Eisenbarth



Well Pad. The collected samples were analyzed for the following POSCs utilizing US EPA approved methods:

- Volatile Organic Compounds (VOCs)
 - o benzene
 - o toluene
 - o ethylbenzene
 - o acetone
 - o total xylenes
- Semi-Volatile Organic Compounds (SVOCs)
 - o petroleum distillates
 - benzo(a)anthracene
 - benzo(a)pyrene
 - benzo(b)fluoranthene
 - benzo(k)fluoranthene
 - chrysene
 - dibenzo(a,h)anthracene
 - indeno(1,2,3-cd)pyrene
 - naphthalene
- pH
- Isopropanol
- tributyl tetradecyl phosphonium chloride (TTPC)*

At this time, no US EPA-Approved Method exists for the analysis of tributyl tetradecyl phosphonium chloride (TTPC)*, a compound which comprises up to 10% (w/w) of the biocide BE-9. In response to this incident, two different laboratory methods were developed for the analysis of TTPC in soils and water. The first method, developed by G-Cal, was used during the initial response to the incident. The second method, developed by the EPA, was used for samples in storage (on October 1, 2014) and for the ODNR investigation. Both methods were validated by EDataPro; however, neither has been certified as US EPA-approved methods. SOPs for both methods are available upon request.

Table 3: Analytical Summary

Analyte	Method	Potential Origin
VOCs	US EPA	Acetone, petroleum distillates, and diesel
	Method 8260	fuel
SVOCs	US EPA Method 8270	Petroleum distillates, and diesel fuel
Isopropanol	US EPA Method 8015	Gas Perm 1000
рН	US EPA Method 9045	Flowback waters and hydrochloric acid



As agreed to by Unified Command, citrus extract, terpenes and terpenoids, polyoxyalkylenes, guar gum, and monoethanolamine borate were not specifically analyzed due to the lack of a US EPA approved laboratory analytical method.

Sample Handling Procedures

Immediately following collection and PID screening, samples were placed into sterile, laboratory-supplied containers which were then placed on ice and submitted to an accredited laboratory.

The VOC, SVOC, isopropanol, and pH analyses were performed by ALS Environmental in Holland, Michigan. TTPC analyses were performed by GCAL Analytical Laboratories in Baton Rouge, Louisiana. To protect sample integrity, custody seals were employed on the closure of the sample-containing coolers, and chain-of-custody procedures were documented from the time of sample collection until analysis at the laboratory.

5.0 QUALITY ASSURANCE

Sampling was carried out in conjunction with quality assurance (QA) goals to confirm generation of valid and defensible data.

Instruments used in the field as part of this investigation consisted of PID meters, pH/conductivity meters, GPS units, digital cameras, and hand-held data collection devices such as tablets/smart phones. The PID and pH/conductivity meters were individually calibrated on a daily basis and the calibration information was documented on dedicated equipment calibration forms and in the field log books. The other equipment did not require field calibration.

Field Duplicate Samples

For approximately every twenty (20) samples collected in the field, one (1) field duplicate was collected and submitted for laboratory analysis to verify the reproducibility of the sampling and analytical methods. Field duplicate samples were collected from the locations summarized on **Table 4** and indicated no anomalous or significant fluctuation in the majority of laboratory analytical data between the respective parent and duplicate samples.

Table 4: Field Duplicate Summary

Parent Sample	TTPC (µg/Kg)	Duplicate Sample	TTPC (µg/Kg)	Sample
ID		ID		Matrix
SB-9 2-4'	0.955	DUPE-1	1.04	Soil
SB-22 0-2'	16.2	DUPE-2	70.5	Soil
SB-33 0-2'	2080	DUPE-3	225	Soil
SB-42 0-2'	ND	DUPE-4	0.396	Soil
SB-20	ND	DUPE-5	ND	Groundwater



Two of the soil field duplicates samples analyzed for TTPC did show variation in the results. As referenced in Section 4, Statoil used the method developed by the US EPA for these analyses. TTPC is amphiphilic and binds strongly to plastics and other materials during laboratory analysis. Additionally, due to the nature of TTPC, TTPC may bind differently to variations in soil and lithology, thus influencing results. It should also be noted that laboratory detection levels for these test results are currently measured in parts per trillion, which is well below the parts per billion screening levels calculated.

Field Split Samples

Field split samples were collected in conjunction with Penn E&R by a US EPA representative at select boring locations. Split soil samples were collected from soil borings SB-16, SB-35, and SB-41 at the 0 to 2 foot interval. Split groundwater samples were collected from the temporary monitoring well installed at the SB-31 location. These samples were independently submitted by the US EPA representative for laboratory analysis and the results are in **Table 8**. As of March 10, 2015, Statoil has only received the analytical data for TTPC for the split water samples.

The US EPA analyses for the three (3) split soil samples do not show significant variation from the Penn E&R sample data. The SB-16 location does have SVOC detections in the Penn E&R sample that are not observed in the US EPA samples. However, the detection level utilized by the US EPA (400 μ g/kg) was much higher than that of Penn E&R, and the detections observed in the Penn E&R sample were order of magnitudes below this threshold. Some slight variations were noted in the TTPC results. All other analyses indicated no anomalous or significant variation between the Penn E&R and US EPA split samples.

Laboratory QA/QC

Laboratory quality assurance/ quality control (QA/QC) procedures were consistent with the prescribed analytical methods and relevant state and federal regulatory guidance. Internal laboratory quality control procedures included method blanks, matrix spikes/matrix spike duplicates, surrogate samples, calibration standards, and laboratory control standards, all of which are documented in the lab specific Standard Operating Procedures and on the laboratory reports for the respective samples when applicable.

6.0 WASTE DISPOSAL

Investigation derived wastes (IDW) generated during site activities were managed appropriately to comply with applicable local, state, and federal regulations in a manner consistent with the previously generated Statoil-US Waste Management Plan. All IDW (soil cuttings, development/purge water, gloves, sample containers, general refuse, etc.) disposal was managed by the Statoil personnel on-site.



7.0 DATA EVALUATION

To assess the potential environmental impact from the June 2014 well pad incident, all data collected during the OOI-SAP investigation was reviewed in the context of determining the presence/absence of POSCs. The geologic, hydrogeologic, and soil and groundwater data findings follow.

Geologic Data

The Eisenbarth Pad sits in the Allegheny Plateaus physiographic province and is underlain by Permian-Pennsylvanian Age bedrocks according to the Geologic Map of Ohio, published by the ODNR Division of Geologic Survey (2006). More locally, the Marietta Plateau is defined as a dissected, high-relief plateau and generally ranges between 350 feet, to 600 feet near the Ohio River, with mostly fine-grained rocks, red shales, and red soils. The Marietta Plateau is comprised of Pennsylvanian-age Upper Conemaugh Group through the Permian-age Dunkard Group, which consists of continental origin cyclic sequences of red and gray shales, siltstones, sandstones, limestones and coals. Pleistocene (Teays)-age Minford clay, red and brown silty-clay loam colluvium, and landslide deposits are also common.

As part of this investigation, a total of 42 soil borings were advanced at locations across and surrounding the well pad between November 24, 2014 and December 16, 2014. Information obtained during the advancement of the borings as well as records collected during the previous CTEH installation of the existing piezometers was reviewed to evaluate the subsurface conditions at Eisenbarth location. Based on data obtained, it appears that the well pad generally consists of native sedimentary materials that had been cut from the northern hillside and placed as fill on the southern and western portions of the pad. The well pad was then constructed with a relatively thin layer of gravel placed on top of the native fill materials.

The native fill materials generally consisted of disturbed sandy or silty clay materials frequently intermixed with shale or sandstone fragments. Shale bedrock was encountered below the native fill at shallow depths on the northern and eastern portions of the pad, with the depths to bedrock increasing to the west and south. Soil borings were advanced to bedrock or to refusal, and as such the boring depths correspond to the fluctuations in bedrock depth across the pad. Depths of up to 43 feet bgs were obtained prior to encountering bedrock or groundwater in some locations to the western and southern extents of the investigative area.

As the continuous layer of bedrock encountered provides a natural barrier against the migration of any POSCs deeper into the subsurface, the soil borings are expected to be representative of all material that could have potentially been impacted by the June 2014 pad incident. Copies of the boring logs detailing the materials encountered are provided in **Appendix A**; cross-sections of the pad are provided in **Figures 3, 3A, and 3B**.

Hydrogeologic Data

Six (6) of the 42 soil borings exhibited conditions indicating that groundwater may be present. These six (6) borings were converted into temporary monitoring wells (SB-15, SB-20, SB-21, SB-25, SB-27, and SB-31). However, groundwater was present within only four (4) of the six (6) monitoring wells (SB-15,



SB-20, SB-21, and SB-31) during the course of the site investigation. The other locations (SB-25 and SB-27) remained dry throughout the investigation. Due to the relatively shallow depth to bedrock beneath the northern and eastern regions of the pad, groundwater was only encountered in the deeper borings located on the western and southern extents of the pad.

To supplement the hydrogeologic data obtained from the four (4) viable temporary monitoring wells, additional groundwater data was obtained from the twelve (12) 2-inch diameter piezometers previously installed by CTEH at the Eisenbarth Well Pad (GP-1, GP-2, GP-5, GP-8, GP-9, GP-19, GP-21, GP-22, GP-23, GP-24, GP-26, and GP-28). Groundwater data was obtained from eight (8) of the twelve (12) piezometers; two (2) locations were dry (GP-5 and GP-21) and two (2) had damaged casings preventing access (GP-2 and GP-9). A summary of the information collected from the temporary monitoring wells and piezometers is provided in **Table 5**.

Data collected from temporary monitoring wells and piezometers indicates that, depending on the location, groundwater was encountered during drilling at depths ranging from approximately 14- to 40-feet bgs, with static depths to groundwater being measured between 20- to 31-feet bgs. Groundwater elevations were calculated and flow directions estimated utilizing depth to water measurements.

In this hydrogeologic setting, the piezometric surface of the unconfined aquifer generally conforms to surface topography, being highest beneath hilltops and lowest in valleys, where it commonly intersects the land surface and contributes flow to the local streams. The recharge areas of the unconfined aquifer are situated along hilltops and valley walls and discharge areas are within valley bottoms. In general, groundwater at the Eisenbarth location appears to flow to the west to an unnamed tributary of Opossum Creek from the western portion of the pad and to the south from the southern portion of the pad. This apparent drainage divide is not unexpected as it mimics the topography of the well pad construction. These probable drainage pathway areas were focal points of investigative efforts, and data collected reflect no ongoing adverse impacts that can be tied to the June 2014 incident. A groundwater contour map is provided as **Figure 4**.

Soil and Groundwater Analytical Data

Following receipt of the laboratory data, quality results were compared to established screening and action levels. Soil levels were developed primarily from the Ohio Environmental Protection Agency (OEPA) Industrial and Commercial criteria found in Ohio's Voluntary Action Program (VAP) (OAC 3745-300-08), and water screening criteria were confirmed through a comparison to the US EPA National Drinking Water Standards (DWS). A screening level of 1 ppb (part per billion) was suggested by the US EPA for use in the analysis and evaluation of TTPC in groundwater samples. This TTPC level was based upon the potential adverse impacts in surface water to be 11 ppb, with an uncertainty factor of 10 applied. Translated for laboratory reporting of groundwater concentrations, this limit equates to 1 μ g/L. CTEH toxicologists then applied a formula established by the US EPA that takes into account TTPC's binding affinity for soil, geared towards what level in sediment and soils would potentially cause a detection level of 1 ppb (or 1 μ g/L) in surface waters. This level has been established as the TTPC action level for soil samples.



Of important note is that, during US EPA investigative activity, TTPC has been detected in upstream, background tributaries that were not involved in the Ohio Operations Incident. Additionally, multiple locations have shown sporadic detections of TTPC in surface water and sediment, as demonstrated below. Due to the potential use of TTPC as an anti-algae compound in re-circulatory water systems, it is extremely likely that TTPC is being or has historically been used in the local area.

	Sample Date	Location	Relation to Location	TTPC Result	Units
•	06-Jul-14	SW23	Trib Upstream of Pad Drainage (South)	20.7	μg/L
•	15-Jul-14	SW15	Unassociated Trib to North	9.16	μg/L
•	15-Jul-14	SW15 (DUP)	Unassociated Trib to North	2.44	μg/L
•	13-Aug-14	SW23	Trib Upstream of Pad Drainage (South)	18.3	μ g/L
•	21-Jul-14	SW11	Unassociated Trib to East	219000	$\mu g / \! K g$
•	13-Aug-14	SW23	Trib Upstream of Pad Drainage (South)	2.58	$\mu g / \! K g$

Additionally, TTPC was detected in background soil sampling locations. Borings SB-1 through 5 are considered to be "background" sampling locations because they are located either just off the pad or on the pad edges and in areas not directly affected by the incident (i.e., nothing was burned in these areas, no water was released in these areas). TTPC was identified in the surface intervals in all of these locations with the exception of SB-4 and SB-5 (**Table 6**).

> Soils

None of the soil samples collected at any of the borings exceeds the OEPA Industrial/Commercial program action levels. All TTPC detections were orders of magnitude below the established action level, and have been confined to the upper four feet of soils on the pad location with the exception of eight (8) de minimus detections; four (4) detections at four (4) to six (6) foot intervals, two (2) detections at eight (8) to ten (10) foot intervals, one (1) at a 12 to 14 foot interval, and one (1) detection at a 28 to 30 foot interval. TTPC shows no signs of migration since the June 2014 event. These few trace detections below ground surface (4 feet in depth) are not representative of subsurface conditions, given the significant variability displayed in TTPC duplicate samples in relation to the parent samples, the multiple detections of TTPC in background samples, and the hydrogeologic unlikelihood of TTPC to migrate through soils via groundwater given its innate tendency to bind to soils. Any de minimis detections of TTPC are unlikely to be a result of the June 2014 pad incident.

While a screening level was developed based on potential impact to surface water, it is known that TTPC strongly adsorbs to soils and would therefore not be expected to easily migrate to shallow groundwater or migrate via runoff, as is evidenced by the lack of corresponding TTPC levels in groundwater samples. As confirmed by Ph.D.-level Toxicologists at CTEH, levels of TTPC in the ppb (or µg/kg) concentration range in soils do not cause TTPC levels in groundwater in exceedance of the 1 µg/L established screening level. Since this is therefore not a screening level exceedance no further follow-up is needed. Also, at lower concentrations TTPC can degrade rapidly to tetrabutyl phosphonium chloride (TBPC), which has much lower aquatic toxicity than TTPC. As such, risks to the aquatic environment and groundwater at these residual levels in the subsurface soils are deemed to be minimal.



Isopropyl alcohol was non-detect in all soil boring samples analyzed. Acetone was not detected in soils above 65 ppb (μ g/kg), with the exception of one soil sample that was presented in the laboratory analysis report with a "J" qualifier indicating that the reported result is below limits of quantitation, a condition which degrades result validity. Even if considered to be valid, the outlier result of 620 "J" μ g/kg of acetone is still so statistically far below the conservative screening level of 2,500 μ g/kg (and the OEPA action level of 110,000,000 μ g/kg) as to be considered *de minimus*.

No other soil parameters exceeded OEPA Industrial/Commercial action levels during the sampling events conducted.

➢ Groundwater

The pH level for the groundwater sample location GP-26 was detected below the DWS range (6.5 - 8.5 S.U.), at 6.2 S.U., during laboratory analysis. This DWS range for pH was established for potable, public water supplies; a detection of pH at 6.2 S.U. in a non-potable groundwater sampling station (with noted weathered shale in the soil boring log) is within the normal and expected range.

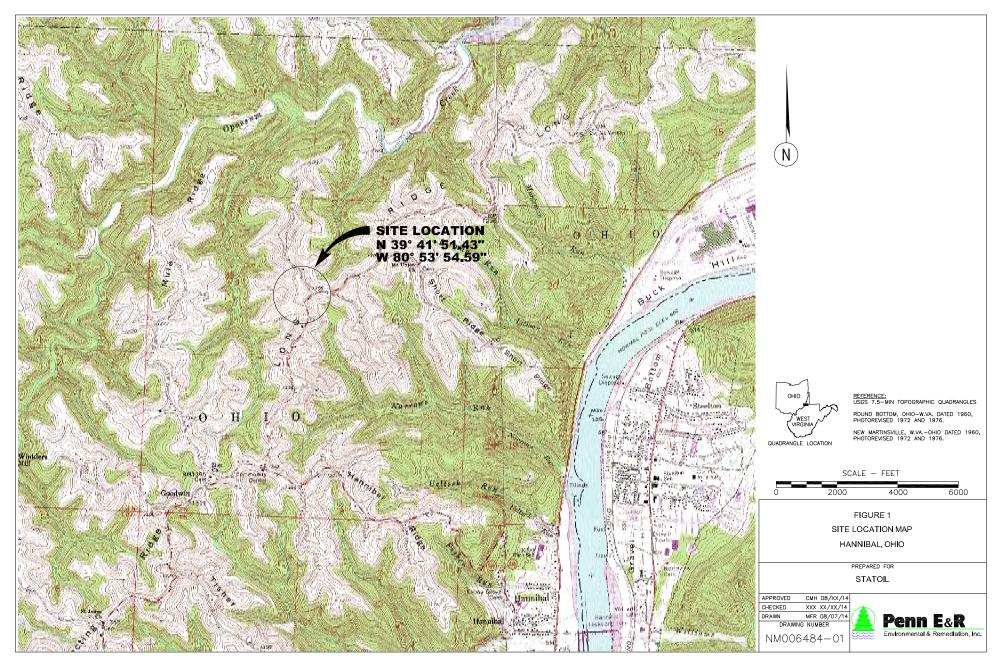
Drinking Water Standards were chosen as a screening level for groundwater investigations. Other than a slight variation in pH (GP-26), a non-potable well, no other parameters exceeded screening levels. TTPC and isopropyl alcohol were non-detect in all groundwater quality samples, and acetone was non-detect or detected below limits of quantitation in all groundwater samples collected. No water quality samples show any elevated parameters above action levels.

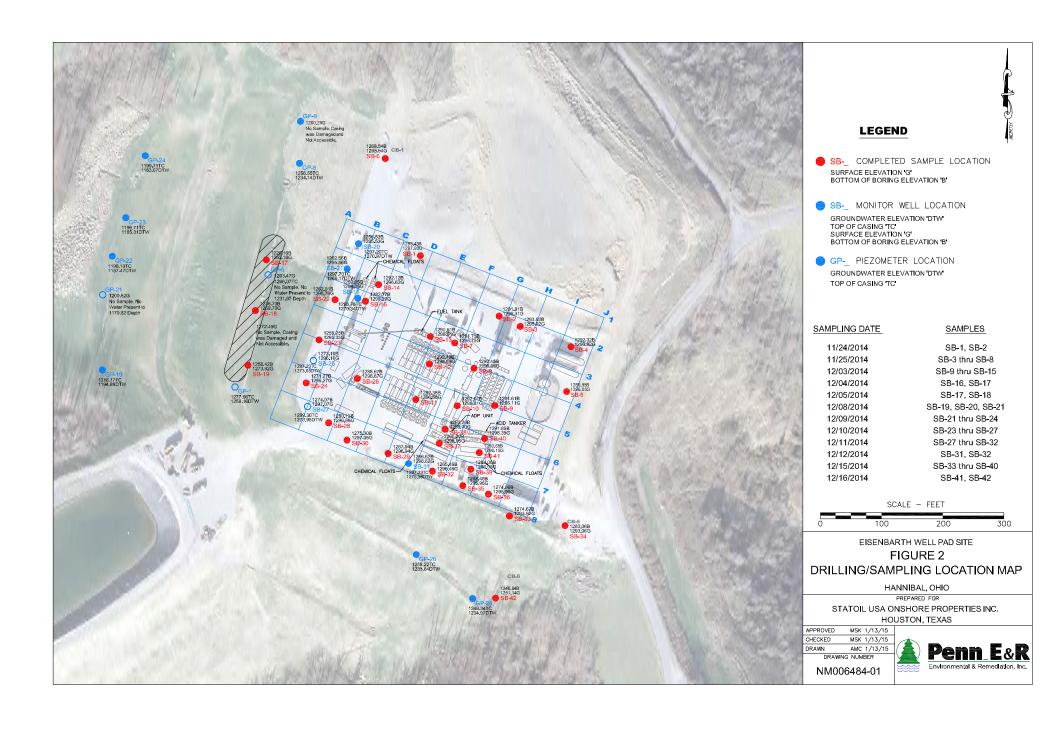
8.0 CONCLUSIONS

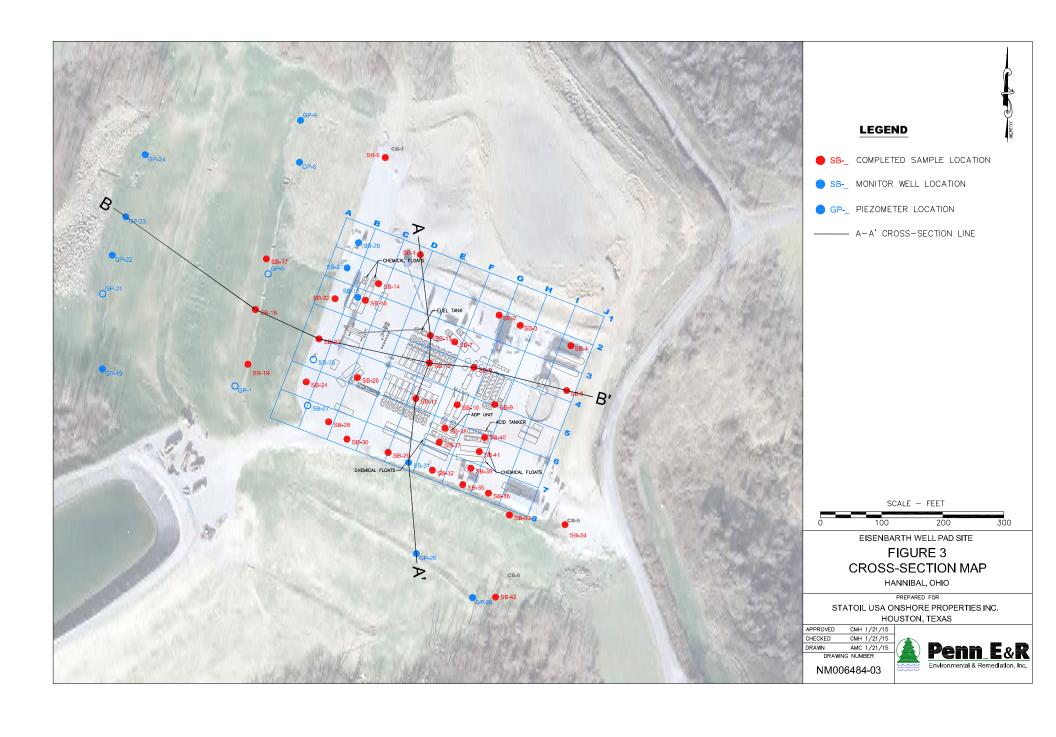
In summary, soil and groundwater samples indicate no presence of POSCs above screening and action levels. Soil samples show such strong declinations from pre-remedial site conditions to the point where, when results are compared to applicable action and screening levels, there is no evidence of migration or long term, continual impact. Based on the results of this comparison, it is apparent that conditions at the site are naturally attenuating and that there are no impacts to the soil, stream, sediment, or water from the POSCs. Therefore, no further on-site remedial action in relation to this investigation is warranted.

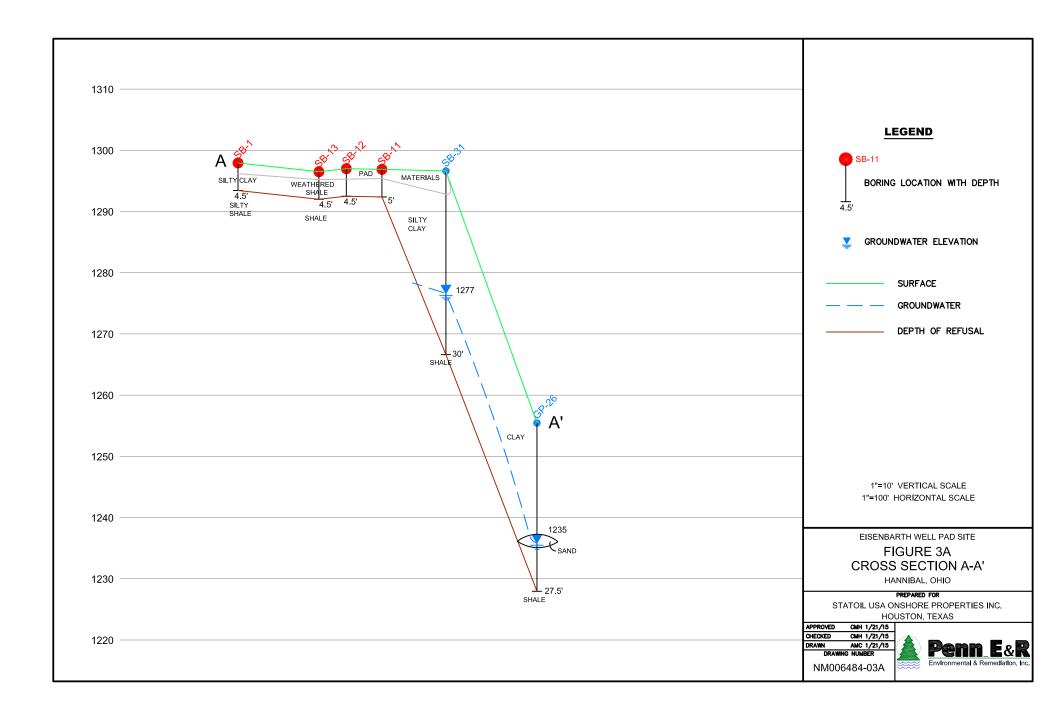
Additional samples that are scheduled to be collected and analyzed will be submitted to ODNR as addendums to this SIR. Investigative activity under the US EPA work plan is scheduled to continue through 2016.

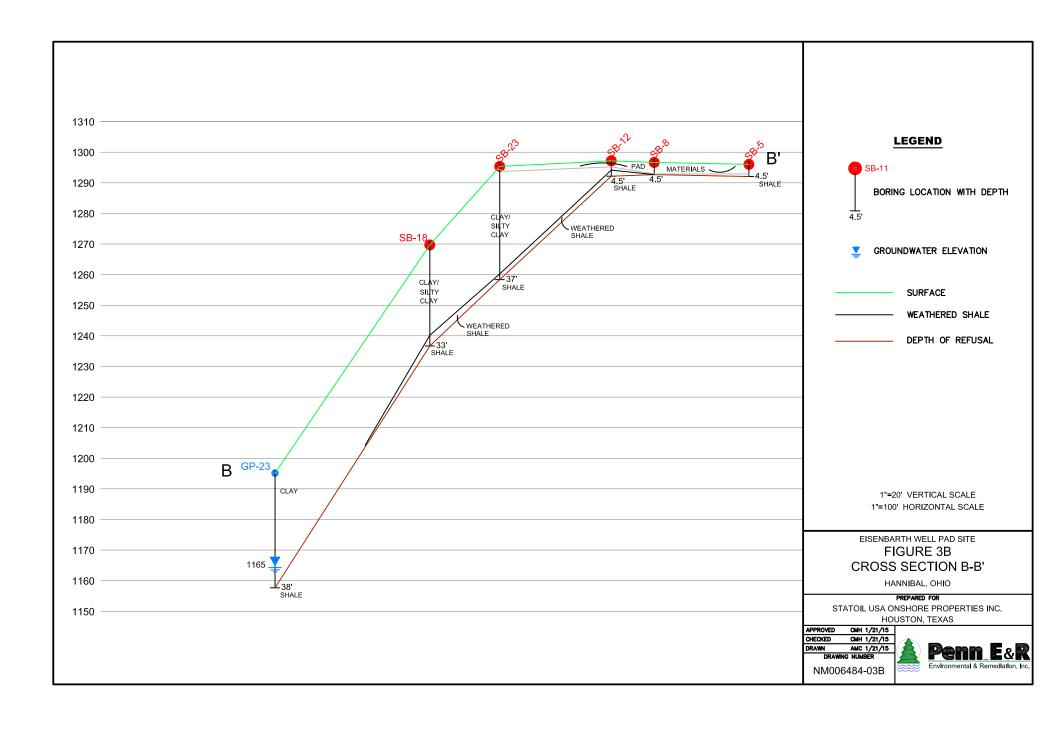
The results of the laboratory analysis are summarized in **Tables 6 and 7**; laboratory reports are provided as **Appendix C**.

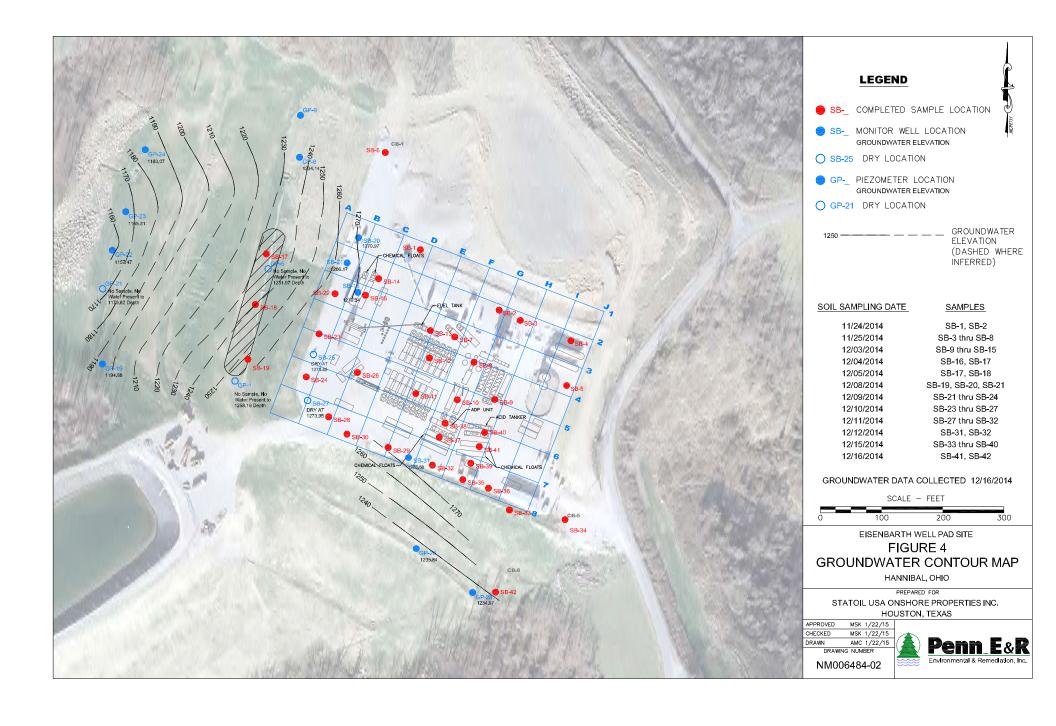












STATOIL USA ONSHORE PROPERTIES INC.

EISENBARTH PAD SITE SURVEY DATA TABLE 2

Obtained: Thursday, December 18, 2014

		Obtained, Tridisda	,,		
Location ID	Northing	Easting	Latitude	Longitude	Elevation
sb-01	622518.956	2419059.111	39°41'53.57"N	80°53'55.24"W	1297.928
sb-02	622420.247	2419187.673	39°41'52.57"N	80°53'53.62"W	1296.308
sb-03	622403.446	2419222.325	39°41'52.40"N	80°53'53.18"W	1295.922
sb-04	622370.088	2419305.066	39°41'52.06"N	80°53'52.13"W	1296.823
sb-05	622296.971	2419297.94	39°41'51.33"N	80°53'52.23"W	1296.047
sb-06	622677.853	2419001.699	39°41'55.15"N	80°53'55.94"W	1295.545
sb-07	622376.359	2419115.099	39°41'52.15"N	80°53'54.56"W	1296.754
sb-08	622334.954	2419146.672	39°41'51.74"N	80°53'54.16"W	1296.649
sb-09	622274.324	2419180.507	39°41'51.13"N	80°53'53.74"W	1296.113
sb-10	622273.797	2419119.329	39°41'51.14"N	80°53'54.52"W	1296.811
sb-11	622283.878	2419051.615	39°41'51.25"N	80°53'55.39"W	1296.876
sb-12	622342.022	2419073.951	39°41'51.82"N	80°53'55.09"W	1296.99
sb-13	622386.815	2419075.331	39°41'52.26"N	80°53'55.06"W	1296.51
sb-14	622471.582	2418990.87	39°41'53.11"N	80°53'56.12"W	1296.616
sb-15	622449.319	2418956.987	39°41'52.90"N	80°53'56.56"W	1298.053
sb-16	622444.471	2418969.322	39°41'52.85"N	80°53'56.41"W	1296.272
sb-17	622512.22	2418807.521	39°41'53.55"N	80°53'58.46"W	1263.155
sb-18	622429.319	2418789.642	39°41'52.73"N	80°53'58.71"W	1269.695
sb-19	622339.967	2418777.418	39°41'51.85"N	80°53'58.88"W	1273.919
sb-20	622538.509	2418958.156	39°41'53.78"N	80°53'56.53"W	1295.528
sb-21	622497.43	2418939.435	39°41'53.38"N	80°53'56.78"W	1295.556
sb-22	622447.048	2418919.699	39°41'52.88"N	80°53'57.04"W	1295.765
sb-23	622381.413	2418893.511	39°41'52.24"N	80°53'57.39"W	1295.349
sb-24	622311.008	2418872.644	39°41'51.55"N	80°53'57.67"W	1296.269
sb-25	622347.643	2418884.509	39°41'51.91"N	80°53'57.51"W	1296.105
sb-26	622318.292	2418956.363	39°41'51.60"N	80°53'56.60"W	1296.671
sb-27	622272.518	2418874.974	39°41'51.17"N	80°53'57.65"W	1297.067
sb-28	622245.85	2418909.378	39°41'50.90"N	80°53'57.22"W	1296.876
sb-29	622195.619	2419006.722	39°41'50.38"N	80°53'55.98"W	1296.942
sb-30	622217.678	2418939.288	39°41'50.61"N	80°53'56.84"W	1297.048
sb-31	622179.29	2419039.797	39°41'50.22"N	80°53'55.56"W	1296.616
sb-32	622166.951	2419078.735	39°41'50.09"N	80°53'55.07"W	1296.455
sb-33	622093.718	2419204.506	39°41'49.34"N	80°53'53.48"W	1293.915
sb-34	622077.826	2419295.304	39°41'49.17"N	80°53'52.32"W	1293.06
sb-35	622143.378	2419128.445	39°41'49.85"N	80°53'54.44"W	1295.959
sb-36	622129.335	2419170.306	39°41'49.70"N	80°53'53.91"W	1295.994
sb-37	622212.366	2419089.917	39°41'50.53"N	80°53'54.92"W	1296.949
sb-38	622235.303	2419099.515	39°41'50.76"N	80°53'54.79"W	1296.701
sb-39	622170.021	2419141.465	39°41'50.11"N	80°53'54.27"W	1296.061
sb-40	622220.324	2419163.916	39°41'50.60N	80°53'53.97"W	1296.346
sb-41	622197.131	2419155.303	39°41'50.37"N	80°53'54.08"W	1296.147
sb-42	621959.498	2419181.883	39°41'48.02"N	80°53'53.80"W	1251.135
gp-01	622304.494	2418756.383	39°41'51.50"N	80°53'59.16"W	1274.795
gp-02	622358.105	2418786.802	39°41'52.03"N	80°53'58.76"W	1272.493
gp-05	622487.643	2418810.421	39°41'53.30"N	80°53'58.43"W	1263.475
gp-08	622670.025	2418861.701	39°41'55.10"N	80°53'57.73"W 80°53'57.70"W	1253.397
gp-09	622738.675	2418863.254 2418539.714	39°41'55.77"N 39°41'51.81"N	80°53'57.70"W 80°54'01.93"W	1260.251 1214.705
gp-19		2418539.714			1214.705
gp-21	622455.114	2418540.375	39°41'53.03"N 39°41'53.65"N	80°54'01.89"W 80°54'01.68"W	1196.58
gp-22	622518.139	2418577.868	39°41'54.27"N	80°54'01.38"W	1195.143
gp-23 gp-24	622581.058	2418577.868	39°41'54.27"N 39°41'55.26"N	80°54'01.38"W 80°54'00.95"W	1195.143
	622030.644	2419052.282	39°41'48.75"N	80°53'55.44"W	1255.451
gp-26	621958.766	2419032.282	39°41'48.02"N	80°53'54.28"W	1245.061
gp-28	021938./66	2419144.408	59 41 48.UZ N	6U 35 34.28"W	1245.061

TABLE 5 Statoil USA Onshore Properties, Inc. EISENBARTH PAD GROUNDWATER DATA SUMMARY

	G	eneral Data			Pre-De	evelopment Data (12-1	4/14)	Post-Developm	ent Data (12-16-14)	P	urge and Sample Data			
Location ID	Monitoring Point Type	Ground Surface Elevation (ft-msl)	TOC Elevation (ft-msl)	Monitoring Point Depth (ft-bgs)	Depth to Water at Installation (Boring Logs) (ft -bgs)	Depth to Water (Below TOC)	Groundwater Elevation (ft-msl)	Depth to Water (Below TOC)	Groundwater Elevation (ft-msl)	Measurement Date (Time)	Depth to Water (Below TOC)	Groundwater Elevation (ft-msl)	Comments	
SB-15	Temporary Monitoring Well	1298.05	1298.78	30.10	~26	30.08	1268.70	28.44	1270.34	12/18/14 (13:40)	28.44	1270.34	Installed on pad	
SB-20	Temporary Monitoring Well	1295.53	1297.20	40.00	~36	25.52	1271.68	26.23	1270.97	12/18/2014	24.86	1272.34	Installed on western edge of pad	
SB-21	Temporary Monitoring Well	1295.56	1297.70	35.00	~30	31.52	1266.18	31.53	1266.17	12/18/14 (13:05)	31.36	1266.34	Installed on western edge of pad	
SB-25	Temporary Monitoring Well	1296.10	1297.20	23.55	~20	Dry	<1273.65	Dry	<1273.65	12/18/2014	Dry	<1273.65	Installed on western edge of pad	
SB-27	Temporary Monitoring Well	1297.07	1299.30	25.35	~18	Dry	<1273.95	Dry	<1273.95	12/18/2014	Dry	<1273.95	Installed on southwestern corner of pad	
5B-31	Temporary Monitoring Well	1296.62	1297.23	30.15	~20	NM	NA	20.65	1276.58	12/18/2014	21.24	1275.99	Southern edge of pad, completed after 12-1 -14	
GP-1	Piezometer	1274.80	1277.66	19.50	Dry	Dry	<1258.16	Dry	<1258.16	12/17/2014	Dry	<1258.16	Installed on western slope of pad	
GP-2	Piezometer	1272.49	NA	NA	NA	NA	NA	NA	NA	12/17/2014	NA	NA	Casing crushed, could not access	
GP-5	Piezometer	1263.47	1266.07	34.10	Dry	Dry	< 1231.97	Dry	< 1231.97	12/17/2014	Dry	< 1231.97	Dry - no water present during measurement	
GP-8	Piezometer	1253.40	1256.55	26.48	~21	22.45	1234.10	22.41	1234.14	12/17/14 (12:45)	22.41	1234.14	Installed on western slope of pad	
GP-9	Piezometer	1260.25	NA	NA	NA	NA	NA	NA	NA	12/17/2014	NA	NA	Casing crushed, could not access	
GP-19	Piezometer	1214.70	1216.77	24.99	~18	19.45	1197.32	21.89	1194.88	12/17/14 (12:15)	23.20	1193.57	Installed on western slope of pad	
GP-21	Piezometer	1200.52	NM	29.70	Dry	Dry	NA	Dry	NA	12/17/2014	Dry	NA	Dry - no water present during measurement	
GP-22	Piezometer	1196.58	1198.10	41.69	NM	NM	NA	40.63	1157.47	12/17/14 (10:55)	41.03	1157.07	Installed on western slope of pad	
GP-23	Piezometer	1195.14	1196.71	39.46	NM	31.55	1165.16	31.4	1165.31	12/17/14 (10:00)	34.51	1162.20	Installed on western slope of pad	
GP-24	Piezometer	1197.00	1199.71	24.75	NM	16.58	1183.13	16.64	1183.07	12/17/14 (09:15)	18.73	1180.98	Installed on western slope of pad	
GP-26	Piezometer	1255.45	1258.22	29.55	NM	23.22	1235.00	22.38	1235.84	12/17/14 (08:10)	22.53	1235.69	Installed on southern slope of pad	
GP-28	Piezometer	1245.06	1249.34	14.66	NM	14.23	1235.11	14.37	1234.97	12/17/14 (08:05)	14.66	1234.68	Minimal water present during measurement	

NA - Not Applicable

ft-msl - Feet Above Mean Sea Level ft - bgs - Feet Below Ground Surface

Soil Boring Soil Sample Analytical Data Table 6

-ENUNC				-						2'-4'	0'-2'	2'-4'	0'-2'	24'-26'	0'-2'	4'-6'	0'-2'	4'-6'	0'-2'
EENING EVELS	ACTION LEVELS		Collection Date	11/24/14	11/24/14	11/24/14	11/24/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	11/25/14	12/03/14
SEPA gion 5 RCRA ug/kg)	OEPA Industrial / Commercial (μg/kg)	Units	Collection Time	13:50	14:25	14:45	15:10	8:41	9:41	9:51	10:23	10:37	11:30	13:25	14:55	15:15	15:30	15:40	10:32
5,210	58,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	8.6	ND	15	ND	6.2 J	ND	8.9
1,520	5,800	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	28	ND	ND	ND	ND
N/A	58,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	19	ND	24	ND	ND	ND	ND
148,000	580,000			ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	17	ND	ND	ND	ND
4,730	5,800,000			ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9 J	ND	13	ND	3.8 J	ND	5.2 J
18,400	5,800			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109,000	58,000			ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	20	ND	ND	ND	ND
2,500	110,000,000			31	16	13	13	21	18	10	21	14	43	15	29	9.2 J	20	9.7 J	9.3 J
255	140,000			8.3	13	4.1 J	0.46 J	8.7	1.6 J	1.6 J	1.8 J	2.3 J	13	30		1.1 J	1.8 J	0.43 J	ND
5,450	820,000			7.2	8.1	1.1 J	ND			0.71 J	2.7 J	0.80 J			6.7	1.3 J		0.43 J	0.66 J
5,160	480,000			1.4 J		0.20 J	ND	0.76 J	0.32 J	ND	0.44 J	ND	1.8 J		1.4 J	0.24 J	0.92 J	ND	ND
10,000	260,000			3.2 J		ND	ND	1.3 J	1.1 J	ND	1.5 J	ND	4.5 J			1.0 J	2.1 J	ND	ND
				0.22 J	0.33 J	ND	ND	0.26 J	ND	ND	ND	ND	0.29 J	0.42 J	0.25 J	ND	ND	ND	ND
99	450,000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	N/A	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		s.u.		7.8		8.3			8.7	9	9	8.9	8.0			8.2		8.2	8.6
-	,	μg/Kg				0.286	ND		ND					ND	26.4	5.42		ND	39.0
N/A	N/A	ppm		0.5	0.6	0.4	1.0	0.2	0.3	0.6	0.4	0.4	0.3	1	0.5	0.5	0.7	0.2	0.4
11 11 11 11 11 11 11 11 11 11 11 11 11	5,210 1,520 N/A 48,000 4,730 18,400 09,000 2,500 2,550 5,450 5,160 10,000 N/A 99 N/A N/A N/A	SEPA (ion 5 CRA (μg/kg)) 5,210 58,000 1,520 5,800 N/A 58,000 48,000 580,000 4,730 5,800,000 18,400 5,800 09,000 58,000 2,500 110,000,000 2,500 110,000,000 5,450 820,000 5,450 820,000 5,160 480,000 10,000 260,000 N/A 270,000 99 450,000 N/A N/A N/A N/A N/A N/A 859,330 N/A N/A	CEPA Commercial Commercial CRA Commercial CRA Commercial CRA CHAPTER CRA CHAPTER CHAPTER CRA CHAPTER CHAP	Collection Time Collection Time Collection Collection Time Collection Time	SEPA (ion 5) CRA (μg/kg) OEPA Industrial / Commercial (μg/kg) Units Collection Time 13:50 5,210 58,000 μg/Kg-dry ND 1,520 5,800 μg/Kg-dry ND N/A 58,000 μg/Kg-dry ND 48,000 580,000 μg/Kg-dry ND 4,730 5,800,000 μg/Kg-dry ND 18,400 5,800 μg/Kg-dry ND 09,000 58,000 μg/Kg-dry ND 2,500 110,000,000 μg/Kg-dry 31 255 140,000 μg/Kg-dry 7.2 5,450 820,000 μg/Kg-dry 7.2 5,160 480,000 μg/Kg-dry 3.2 J N/A 270,000 μg/Kg-dry 0.22 J N/A 270,000 μg/Kg-dry ND N/A N/A N/A N/A N/A N/A N/A 39.7 N/A N/A N/A N/A N/A N/A	GEPA (sion 5) CRA (g/kg) OEPA Industrial (μg/kg) Units Collection Time 13:50 14:25 5,210 58,000 μg/Kg-dry ND ND 1,520 5,800 μg/Kg-dry ND ND N/A 58,000 μg/Kg-dry ND ND 48,000 580,000 μg/Kg-dry ND ND 4,730 5,800,000 μg/Kg-dry ND ND 18,400 5,800 μg/Kg-dry ND ND 25,500 110,000,000 μg/Kg-dry ND ND 2,500 110,000,000 μg/Kg-dry 8.3 13 5,450 820,000 μg/Kg-dry 7.2 8.1 5,160 480,000 μg/Kg-dry 1.4 J 2.6 J 10,000 260,000 μg/Kg-dry 3.2 J 3.6 J N/A 270,000 μg/Kg-dry ND ND N/A N/A N/A N/A ND ND N/A N/A N/A <td> SEPA Commercial (μg/kg) Collection Time 13:50 14:25 14:45 </td> <td> SEPA Commercial (μg/kg) Collection Time 13:50</td> <td> SEPA Commercial (μg/kg) Units Collection Time 13:50 14:25 14:45 15:10 8:41 </td> <td> SEPA Commercial (μg/kg) Collection Time 13:50 14:25 14:45 15:10 8:41 9:41 </td> <td> DEPA Industrial Commercial (μg/kg) Units Collection Time 13:50 14:25 14:45 15:10 8:41 9:41 9:51 </td> <td> Collection Series Collection Series Collection Series Collection Series Collection Series Collection Series Ser</td> <td> Collection Commercial Co</td> <td> Comparison Comparison Collection Co</td> <td> Comparizing Comparizing </td> <td> CEPA Commercial (µg/kg-dry ND ND</td> <td> SEPA Commercial (µg/kg)</td> <td> DEPA Industrial Commercial (µg/kg)</td> <td> FPA </td>	SEPA Commercial (μg/kg) Collection Time 13:50 14:25 14:45	SEPA Commercial (μg/kg) Collection Time 13:50	SEPA Commercial (μg/kg) Units Collection Time 13:50 14:25 14:45 15:10 8:41	SEPA Commercial (μg/kg) Collection Time 13:50 14:25 14:45 15:10 8:41 9:41	DEPA Industrial Commercial (μg/kg) Units Collection Time 13:50 14:25 14:45 15:10 8:41 9:41 9:51	Collection Series Collection Series Collection Series Collection Series Collection Series Collection Series Ser	Collection Commercial Co	Comparison Comparison Collection Co	Comparizing Comparizing	CEPA Commercial (µg/kg-dry ND	SEPA Commercial (µg/kg)	DEPA Industrial Commercial (µg/kg)	FPA

Soil Boring Soil Sample Analytical Data Table 6

ACTION LEVELS OEPA Industrial / Commercial (μg/kg)	Units	Collection Date	12/03/14	12/03/14	12/03/14													4
/ Commercial	Units				12/00/14	12/03/14	12/03/14	12/03/14	12/03/14	12/03/14	12/03/14	12/03/14	12/03/14	12/03/14	12/03/14	12/04/14	12/05/14	12/04/14
		Collection Time	10:37	10:37	11:05	11:20	12:40	12:50	13:30	13:45	14:25	14:40	15:15	15:35	17:50	9:15	9:25	11:15
58,000	μg/Kg-dry		ND	8.6	ND	ND	9.6	ND	ND	28	10	ND	ND	ND	ND	11		16
5,800	μg/Kg-dry		ND	12	ND	ND	11	ND	ND	30	ND	ND	ND	ND	ND	12		13
58,000	μg/Kg-dry		ND	9.6	ND	ND	11	ND	ND	39	ND	ND	ND	ND	ND	15		14
580,000	μg/Kg-dry		ND	5.5 J	ND	ND	6.0 J	ND	ND	19	ND	ND	ND	ND	ND	6.0 J		5.5 J
5,800,000			ND	4.1 J	ND	ND	5.0 J	ND	ND	21	5.5 J	ND	ND	ND	ND	6.4 J		7.8 J
5,800			ND	6.2 J	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND		ND
58,000			ND	11	ND	ND	14	ND	ND	26	ND	ND	ND	ND	ND	13		10
110,000,000			ND	ND	12 J	2.9 J	ND	10 J	ND	6.3 J	ND	ND	ND	3.9 J	20	11		ND
140,000			ND	ND	ND	0.26 J	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
820,000			0.30 J	0.25 J	0.99 J	0.72 J	0.43 J	0.70 J	ND	0.28 J	ND	0.40 J	25 J	0.42 J	0.35 J	0.43 J		ND
480,000	μg/Kg-dry		ND	ND	ND	0.20 J	ND	ND	ND	ND	ND	ND	14 J	ND	ND	ND		ND
260,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
450,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
N/A	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
	s.u.		8.7		8.3		8.3	8.3	8.3		8.6		8.4		8.1	8.3		8.4
859,330	μg/Kg		0.955	1.04	113.0	11.8	78.30	N/A	16.30	0.757	12.0	0.413	23.40	3.57	13.7	ND		720.0
N/A	ppm		0.6	NT	1.5	0.6	1.4	0.2	0.8	0.4	0.7	1.1	2.0	0.7	ND	NT	ND	1.2
tl	5,800 58,000 580,000 5,800,000 5,800 58,000 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A	5,800 μg/Kg-dry 58,000 μg/Kg-dry 580,000 μg/Kg-dry 5,800,000 μg/Kg-dry 5,800,000 μg/Kg-dry 5,800 μg/Kg-dry 58,000 μg/Kg-dry 110,000,000 μg/Kg-dry 140,000 μg/Kg-dry 480,000 μg/Kg-dry 260,000 μg/Kg-dry 270,000 μg/Kg-dry 450,000 μg/Kg-dry 450,000 μg/Kg-dry 450,000 μg/Kg-dry Λ/Α μg/Kg-dry N/A μg/Kg-dry N/A s.u. 859,330 μg/Kg	5,800 μg/kg-dry 58,000 μg/kg-dry 580,000 μg/kg-dry 5,800,000 μg/kg-dry 5,800 μg/kg-dry 5,800 μg/kg-dry 110,000,000 μg/kg-dry 140,000 μg/kg-dry 820,000 μg/kg-dry 480,000 μg/kg-dry 260,000 μg/kg-dry 270,000 μg/kg-dry 450,000 μg/kg-dry 450,000 μg/kg-dry N/A μg/kg-dry N/A s.u. 859,330 μg/kg	5,800 μg/Kg-dry ND 58,000 μg/Kg-dry ND 580,000 μg/Kg-dry ND 5,800,000 μg/Kg-dry ND 5,800 μg/Kg-dry ND 58,000 μg/Kg-dry ND 110,000,000 μg/Kg-dry ND 140,000 μg/Kg-dry ND 820,000 μg/Kg-dry ND 260,000 μg/Kg-dry ND 270,000 μg/Kg-dry ND 450,000 μg/Kg-dry ND N/A μg/Kg-dry ND N/A μg/Kg-dry ND N/A s.u. 8.7 859,330 μg/Kg 0.955 N/A ppm 0.6	5,800 μg/Kg-dry ND 12 58,000 μg/Kg-dry ND 9.6 580,000 μg/Kg-dry ND 5.5 J 5,800,000 μg/Kg-dry ND 4.1 J 5,800 μg/Kg-dry ND 6.2 J 58,000 μg/Kg-dry ND ND 110,000,000 μg/Kg-dry ND ND 140,000 μg/Kg-dry ND ND 820,000 μg/Kg-dry ND ND 480,000 μg/Kg-dry ND ND 260,000 μg/Kg-dry ND ND 270,000 μg/Kg-dry ND ND N/A μg/Kg-dry ND ND N/A μg/Kg-dry ND ND N/A s.u. 8.7 8.7 859,330 μg/Kg 0.955 1.04 N/A ppm 0.6 NT	5,800 μg/Kg-dry ND 12 ND 58,000 μg/Kg-dry ND 9.6 ND 580,000 μg/Kg-dry ND 5.5 J ND 5,800,000 μg/Kg-dry ND 4.1 J ND 5,800 μg/Kg-dry ND 6.2 J ND 58,000 μg/Kg-dry ND ND 11 ND 110,000,000 μg/Kg-dry ND ND ND ND 140,000 μg/Kg-dry ND ND ND ND 820,000 μg/Kg-dry ND ND ND ND 480,000 μg/Kg-dry ND ND ND ND 260,000 μg/Kg-dry ND ND ND ND 270,000 μg/Kg-dry ND ND ND ND N/A μg/Kg-dry ND ND ND ND N/A μg/Kg-dry ND ND ND ND N/A <td>5,800 μg/Kg-dry ND 12 ND ND 58,000 μg/Kg-dry ND 9.6 ND ND 580,000 μg/Kg-dry ND 5.5 J ND ND 5,800,000 μg/Kg-dry ND 4.1 J ND ND 5,800 μg/Kg-dry ND 6.2 J ND ND 58,000 μg/Kg-dry ND 11 ND ND 110,000,000 μg/Kg-dry ND ND ND ND ND 140,000 μg/Kg-dry ND ND ND ND 0.26 J 820,000 μg/Kg-dry 0.30 J 0.25 J 0.99 J 0.72 J 0.72 J 480,000 μg/Kg-dry ND ND ND ND ND 270,000 μg/Kg-dry ND ND ND ND ND 450,000 μg/Kg-dry ND ND ND ND ND N/A μg/Kg-dry ND</td> <td>5,800 μg/kg-dry ND 12 ND ND 11 58,000 μg/kg-dry ND 9.6 ND ND 11 580,000 μg/kg-dry ND 5.5 J ND ND 6.0 J 5,800,000 μg/kg-dry ND 4.1 J ND ND 5.0 J 5,800 μg/kg-dry ND 6.2 J ND ND ND 58,000 μg/kg-dry ND 11 ND ND ND 110,000,000 μg/kg-dry ND ND ND ND 14 110,000,000 μg/kg-dry ND ND ND ND ND ND 140,000 μg/kg-dry ND ND ND ND 0.26 J 0.24 J 820,000 μg/kg-dry ND ND ND ND 0.20 J ND 480,000 μg/kg-dry ND ND ND ND ND ND 270,000 μg/k</td> <td> S,800 μg/kg-dry ND 12 ND ND 11 ND </td> <td>5,800 µg/kg-dry ND 12 ND ND 11 ND ND 58,000 µg/kg-dry ND 9.6 ND ND 11 ND ND 580,000 µg/kg-dry ND 5.5 J ND ND 6.0 J ND ND 5,800,000 µg/kg-dry ND 4.1 J ND ND</td> <td>5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 58,000 μg/kg-dry ND 9.6 ND ND 11 ND ND 39 580,000 μg/kg-dry ND 5.5 J ND ND 6.0 J ND ND 19 5,800,000 μg/kg-dry ND 4.1 J ND ND 5.0 J ND ND 19 5,800,000 μg/kg-dry ND 6.2 J ND ND</td> <td>5,800 μg/Kg-dry ND 12 ND ND 11 ND ND 30 ND 58,000 μg/Kg-dry ND 9.6 ND ND 11 ND ND 39 ND 580,000 μg/Kg-dry ND 5.5 J ND ND 6.0 J ND ND 19 ND 5,800,000 μg/Kg-dry ND 4.1 J ND ND 5.0 J ND ND 19 ND 5,800,000 μg/Kg-dry ND 6.2 J ND ND</td> <td>5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND 58,000 μg/kg-dry ND 9.6 ND ND 11 ND ND 39 ND ND 580,000 μg/kg-dry ND 5.5 J ND ND 6.0 J ND ND 19 ND ND 5,800,000 μg/kg-dry ND 4.1 J ND ND 5.0 J ND ND 19 ND ND 5,800 μg/kg-dry ND 6.2 J ND ND</td> <td> S,800 μg/kg-dry ND 12 ND ND ND ND ND ND ND N</td> <td> S,800 µg/Kg-dry ND 12 ND ND 11 ND ND 30 ND ND ND ND ND S8,000 µg/Kg-dry ND 9.6 ND ND ND ND ND ND ND N</td> <td>5,800 µg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND</td> <td>5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND ND ND 12 58,000 μg/kg-dry ND 9.6 ND ND ND ND 39 ND N</td> <td>5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND ND ND 12 58,000 μg/kg-dry ND 9.6 ND ND 11 ND ND 39 ND ND ND ND 15 58,000 μg/kg-dry ND 5.51 ND ND 6.01 ND ND 19 ND ND</td>	5,800 μg/Kg-dry ND 12 ND ND 58,000 μg/Kg-dry ND 9.6 ND ND 580,000 μg/Kg-dry ND 5.5 J ND ND 5,800,000 μg/Kg-dry ND 4.1 J ND ND 5,800 μg/Kg-dry ND 6.2 J ND ND 58,000 μg/Kg-dry ND 11 ND ND 110,000,000 μg/Kg-dry ND ND ND ND ND 140,000 μg/Kg-dry ND ND ND ND 0.26 J 820,000 μg/Kg-dry 0.30 J 0.25 J 0.99 J 0.72 J 0.72 J 480,000 μg/Kg-dry ND ND ND ND ND 270,000 μg/Kg-dry ND ND ND ND ND 450,000 μg/Kg-dry ND ND ND ND ND N/A μg/Kg-dry ND	5,800 μg/kg-dry ND 12 ND ND 11 58,000 μg/kg-dry ND 9.6 ND ND 11 580,000 μg/kg-dry ND 5.5 J ND ND 6.0 J 5,800,000 μg/kg-dry ND 4.1 J ND ND 5.0 J 5,800 μg/kg-dry ND 6.2 J ND ND ND 58,000 μg/kg-dry ND 11 ND ND ND 110,000,000 μg/kg-dry ND ND ND ND 14 110,000,000 μg/kg-dry ND ND ND ND ND ND 140,000 μg/kg-dry ND ND ND ND 0.26 J 0.24 J 820,000 μg/kg-dry ND ND ND ND 0.20 J ND 480,000 μg/kg-dry ND ND ND ND ND ND 270,000 μg/k	S,800 μg/kg-dry ND 12 ND ND 11 ND	5,800 µg/kg-dry ND 12 ND ND 11 ND ND 58,000 µg/kg-dry ND 9.6 ND ND 11 ND ND 580,000 µg/kg-dry ND 5.5 J ND ND 6.0 J ND ND 5,800,000 µg/kg-dry ND 4.1 J ND ND	5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 58,000 μg/kg-dry ND 9.6 ND ND 11 ND ND 39 580,000 μg/kg-dry ND 5.5 J ND ND 6.0 J ND ND 19 5,800,000 μg/kg-dry ND 4.1 J ND ND 5.0 J ND ND 19 5,800,000 μg/kg-dry ND 6.2 J ND ND	5,800 μg/Kg-dry ND 12 ND ND 11 ND ND 30 ND 58,000 μg/Kg-dry ND 9.6 ND ND 11 ND ND 39 ND 580,000 μg/Kg-dry ND 5.5 J ND ND 6.0 J ND ND 19 ND 5,800,000 μg/Kg-dry ND 4.1 J ND ND 5.0 J ND ND 19 ND 5,800,000 μg/Kg-dry ND 6.2 J ND ND	5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND 58,000 μg/kg-dry ND 9.6 ND ND 11 ND ND 39 ND ND 580,000 μg/kg-dry ND 5.5 J ND ND 6.0 J ND ND 19 ND ND 5,800,000 μg/kg-dry ND 4.1 J ND ND 5.0 J ND ND 19 ND ND 5,800 μg/kg-dry ND 6.2 J ND ND	S,800 μg/kg-dry ND 12 ND ND ND ND ND ND ND N	S,800 µg/Kg-dry ND 12 ND ND 11 ND ND 30 ND ND ND ND ND S8,000 µg/Kg-dry ND 9.6 ND ND ND ND ND ND ND N	5,800 µg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND	5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND ND ND 12 58,000 μg/kg-dry ND 9.6 ND ND ND ND 39 ND N	5,800 μg/kg-dry ND 12 ND ND 11 ND ND 30 ND ND ND ND 12 58,000 μg/kg-dry ND 9.6 ND ND 11 ND ND 39 ND ND ND ND 15 58,000 μg/kg-dry ND 5.51 ND ND 6.01 ND ND 19 ND ND

				Sample ID	SB-16 8'-10'	SB-17 0'-2'	SB-17 26'-28'	SB-18 0'-2'	SB-18 32'-34'	SB-19 0'-2'	SB-19 2'-4'	SB-20 0'-2'	SB-20 32'- 34'	SB-21 0'-2'	SB-21 10'-12'	SB-22 0'-2'	SB-22 6'-8'	SB-22 0'-2' DUPE-2	SB-23 0'-2'	SB-23 18'-20'
	SCREENING LEVELS	ACTION LEVELS		Collection Date	12/04/14	12/04/14	12/04/14	12/05/14	12/05/14	12/08/14	12/08/14	12/08/14	12/08/14	12/08/14	12/08/14	12/09/14	12/09/14	12/09/14	12/09/14	12/10/14
Potential On-Site Constituents (POSCs)	USEPA Region 5 RCRA (µg/kg)	OEPA Industrial / Commercial (μg/kg)	Units	Collection Time	11:42	15:15	17:20	11:20	13:50	8:05	8:20	9:45	12:25	15:24	16:15	9:40	10:45	9:40	14:35	13:15
benzo(a)anthracene	5,210	58,000	μg/Kg-dry		8.8	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	10	ND	13	ND	65
benzo(a)pyrene	1,520	5,800	μg/Kg-dry		ND	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	46
benzo(b)fluoranthene	N/A	58,000	μg/Kg-dry		ND	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	65
benzo(k)fluoranthene	148,000	580,000	μg/Kg-dry		ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	29
chrysene	4,730	5,800,000	μg/Kg-dry		5.3 J	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	20	ND	19	ND	58
dibenzo(a,h)anthracene	18,400	5,800	μg/Kg-dry		ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	15
indeno(1,2,3-c,d)pyrene	109,000	58,000	μg/Kg-dry		ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	33
Acetone	2,500	110,000,000	μg/Kg-dry		20	40	36	50	12 J	ND	ND	65	19	20	8.9	29	13	23	3.1 J	20
Benzene	255	140,000	μg/Kg-dry		2.8 J	13	44	8.8	22	ND	ND	3.4 J	49	5.7	3.2	2.4 J	2.2 J	2.8 J	ND	ND
Toluene	5,450	820,000	μg/Kg-dry		1.3 J	7.6	18	4.6 J	11	0.29 J	0.52 J	1.8 J	26	2.8 J	1.2 J	4.6 J	0.78 J	4.4 J	0.39 J	0.33 J
Ethylbenzene	5,160	480,000	μg/Kg-dry		0.26 J	2.0 J	4.1 J	1.0 J	3.0 J	ND	ND	0.37 J	5.4	0.60 J	0.21 J	1.3 J	ND	0.95 J	ND	ND
xylenes	10,000	260,000	μg/Kg-dry		ND	3.0 J	7.5	2.0 J	4.2 J	ND	ND	ND	13	0.96 J	ND	2.7 J	ND	2.1 J	ND	ND
Isopropylbenzene (cumene)	N/A	270,000	μg/Kg-dry		ND	0.22 J	0.59 J	ND	0.35 J	ND	ND	ND	0.75 J	ND	ND	ND	ND	ND	ND	ND
naphthalene	99	450,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
isopropyl alcohol	N/A		μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH (Laboratory)	N/A		s.u.		7.8	7.1	8.3	7.6	8.1	7.6	7.6	7.6	7.9	7.5	7.8	8.4	8.1	8.3	8	7.8
TTPC	N/A		μg/Kg		7.85	ND	ND	10.7	ND	1.14	6.65	0.343	ND	0.355	ND	16.2	ND	70.50	5.23	ND
PID	N/A	N/A	ppm		1.7	ND	1.1	0.2	0.5	ND	0.1	ND	0.2	0.3	0.9	0.2	0.4	NT	ND	0.3
NA - Not Applicable NT - Not Applicable/Not Test	N/A N/A ppm 1.7 ND 1.1 0.2 0.5 ND 0.1 ND 0.2 0.3 0.9 0.2 0.4 NT ND 0.3																			

				Sample ID	SB-24 0'-2'	SB-24 8'-10'	SB-25 0'-2'	SB-25 12'-14'	SB-26 0'-2'	SB-26 6'-7'	SB-27 0'-2'	SB-27 2'-4'	SB-28 0'-2'	SB-28 10'-12'	SB-29 0'-2'	SB-29 28'-30'	SB-30 0'-2'	SB-30 10'-12'	SB-31 0'-2'	SB-31 2'-4'
	SCREENING LEVELS	ACTION LEVELS		Collection Date	12/09/14	12/09/14	12/10/14	12/10/14	12/10/14	12/10/14	12/10/14	12/10/14	12/11/14	12/11/14	12/11/14	12/11/14	12/11/14	12/11/14	12/11/14	12/11/14
Potential On-Site Constituents (POSCs)	USEPA Region 5 RCRA (µg/kg)	OEPA Industrial / Commercial (μg/kg)	Units	Collection Time	15:35	17:00	11:00	12:30	15:05	15:40	16:00	16:05	9:15	10:15	10:28	12:55	12:00	12:45	13:50	14:10
enzo(a)anthracene	5,210	58,000	μg/Kg-dry		ND	ND	17	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND
enzo(a)pyrene	1,520	5,800	μg/Kg-dry		ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
enzo(b)fluoranthene	N/A	58,000	μg/Kg-dry		ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
enzo(k)fluoranthene	148,000	580,000	μg/Kg-dry		ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hrysene	4,730	5,800,000	μg/Kg-dry		ND	ND	31	ND	ND	ND	ND	ND	7.2	ND	ND	ND	ND	ND	ND	ND
ibenzo(a,h)anthracene	18,400	5,800	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ndeno(1,2,3-c,d)pyrene	109,000	58,000	μg/Kg-dry		ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cetone	2,500	110,000,000	μg/Kg-dry		ND	9	ND	7.4 J	ND	ND	ND	4.5 J	ND	4.7 J	ND	8.6 J	19	35	ND	ND
enzene	255	140,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77 J	ND	ND	ND	ND
oluene	5,450	820,000	μg/Kg-dry		0.38 J	0.51 J	ND	0.83 J	0.55 J	ND	0.29 J	0.34 J	ND	ND	ND	0.64 J	0.26 J	0.49 J	7.0	ND
thylbenzene	5,160	480,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ylenes	10,000	260,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	ND
opropylbenzene (cumene)	N/A	270,000	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
aphthalene	99	450,000	μg/Kg-dry		ND	ND	30 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
opropyl alcohol	N/A	·	μg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H (Laboratory)	N/A		s.u.		8.0	8.1	8.7	8.0	8.2	8.2	8.2	7.8	8.7	8.4	9.0	8.4	8.4	7.1	9.1	7.1
TPC	N/A	859,330	μg/Kg		27.10	ND	11.1	0.336	36.80	ND	35.3	0.645	1.75	ND	52.40	0.567	0.949	ND	14.90	0.647
ID	N/A	N/A	ppm		1.1	3.1	0.5	1.6	0.4	11.7	0.7	0.3	1.1	1.4	0.4	ND	0.2	3.2	45.1	135

PA Industrial Commercial (µg/kg)		Collection Date	12/11/14															
Commercial				12/12/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14	12/15/14
(1-0)	Units	Collection Time	15:50	12:30	9:20	9:10	9:55	8:35	9:12	9:55	10:12	11:40	12:10	13:50	14:00	14:20	15:40	15:50
58,000 μ	ιg/Kg-dry		ND	ND	12	16	750	15	ND	ND	ND	ND	26	17	14		ND	ND
			ND	ND	ND	33	550	ND	ND	ND	ND	ND	ND	32	ND		ND	ND
58,000 μ	ιg/Kg-dry		ND	ND	ND	29	700	ND	ND	ND	ND	ND	ND	31	ND		ND	ND
580,000 μ	ιg/Kg-dry		ND	ND	ND	21	310	ND	ND	ND	ND	ND	ND	20	ND		ND	ND
5,800,000 μ	ιg/Kg-dry		ND	ND	ND	ND	740	ND	ND	ND	ND	ND	6.6 J	6.7 J	ND		ND	ND
			ND	ND	ND	ND	79	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
58,000 μ	ιg/Kg-dry		ND	ND	ND	30	280	ND	ND	ND	ND	ND	ND	33	ND		ND	ND
110,000,000 μ	ιg/Kg-dry		ND	ND	3.6 J	ND	7.3	ND	ND	ND	41	ND	20	28	620 J		29	17
140,000 μ	ιg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
820,000 μ	ιg/Kg-dry		ND	0.52 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13		1.7 J	1.1 J
480,000 μ	ιg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
270,000 μ	ιg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
450,000 μ	ιg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND		ND	ND
	ιg/Kg-dry		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
N/A	s.u.		8.5	8.1	7.7	7.7	6.5	8.8	7.7	8.1	7.9	8.6	8.1	8.2	6.3		8.5	8.3
859,330	μg/Kg		106.0	ND	2,080.0	225.0	53.1	94.5	ND	6,470.0	3,070.0	2,870.0	8.91	96.3	NA	8.28	13.30	13.60
N/A	ppm		5.2	6.0	3.0	NT	5.1	ND	0.2	0.7	0.6	10.3	8.9	2.3	3.9	1.4	3.6	1.9
	5,800	5,800 μg/kg-dry 58,000 μg/kg-dry 580,000 μg/kg-dry 5,800,000 μg/kg-dry 5,800 μg/kg-dry 5,800 μg/kg-dry 58,000 μg/kg-dry 10,000,000 μg/kg-dry 140,000 μg/kg-dry 480,000 μg/kg-dry 260,000 μg/kg-dry 270,000 μg/kg-dry 450,000 μg/kg-dry μg/kg-dry λ/Α μg/kg-dry Ν/Α μg/kg-dry Ν/Α μg/kg-dry Ν/Α s.u. 859,330 μg/kg	5,800 μg/kg-dry 58,000 μg/kg-dry 580,000 μg/kg-dry 5,800,000 μg/kg-dry 5,800 μg/kg-dry 5,800 μg/kg-dry 10,000,000 μg/kg-dry 140,000 μg/kg-dry 820,000 μg/kg-dry 480,000 μg/kg-dry 260,000 μg/kg-dry 270,000 μg/kg-dry 450,000 μg/kg-dry 450,000 μg/kg-dry η/Α μg/kg-dry Ν/Α μg/kg-dry Ν/Α μg/kg-dry Ν/Α s.u. 859,330 μg/kg	5,800 μg/Kg-dry ND 58,000 μg/Kg-dry ND 580,000 μg/Kg-dry ND 5,800,000 μg/Kg-dry ND 5,800 μg/Kg-dry ND 58,000 μg/Kg-dry ND 10,000,000 μg/Kg-dry ND 140,000 μg/Kg-dry ND 820,000 μg/Kg-dry ND 480,000 μg/Kg-dry ND 260,000 μg/Kg-dry ND 270,000 μg/Kg-dry ND 450,000 μg/Kg-dry ND N/A μg/Kg-dry ND N/A s.u. 8.5 859,330 μg/Kg 106.0 N/A ppm 5.2	5,800 μg/Kg-dry ND ND 58,000 μg/Kg-dry ND ND 580,000 μg/Kg-dry ND ND 5,800,000 μg/Kg-dry ND ND 5,800 μg/Kg-dry ND ND 58,000 μg/Kg-dry ND ND 10,000,000 μg/Kg-dry ND ND 140,000 μg/Kg-dry ND ND 820,000 μg/Kg-dry ND ND 480,000 μg/Kg-dry ND ND 260,000 μg/Kg-dry ND ND 270,000 μg/Kg-dry ND ND N/A μg/Kg-dry ND ND N/A s.u. 8.5 8.1 859,330 μg/Kg 106.0 ND N/A ppm 5.2 6.0	5,800 μg/kg-dry ND ND ND 58,000 μg/kg-dry ND ND ND 580,000 μg/kg-dry ND ND ND 5,800,000 μg/kg-dry ND ND ND 5,800 μg/kg-dry ND ND ND 58,000 μg/kg-dry ND ND ND 10,000,000 μg/kg-dry ND ND ND 140,000 μg/kg-dry ND ND ND 820,000 μg/kg-dry ND ND ND 480,000 μg/kg-dry ND ND ND 260,000 μg/kg-dry ND ND ND 270,000 μg/kg-dry ND ND ND 450,000 μg/kg-dry ND ND ND N/A μg/kg-dry ND ND ND N/A μg/kg-dry ND ND ND N/A μg/kg ND ND	5,800 μg/kg-dry ND ND ND 33 58,000 μg/kg-dry ND ND ND 29 580,000 μg/kg-dry ND ND ND ND ND 5,800,000 μg/kg-dry ND ND <t< td=""><td>5,800 μg/kg-dry ND ND ND 33 550 58,000 μg/kg-dry ND ND ND 29 700 580,000 μg/kg-dry ND ND ND ND 21 310 5,800,000 μg/kg-dry ND ND ND ND ND 740 5,800 μg/kg-dry ND ND ND ND ND 79 58,000 μg/kg-dry ND ND ND ND 30 280 10,000,000 μg/kg-dry ND ND ND ND ND 7.3 140,000 μg/kg-dry ND ND ND ND ND ND ND 820,000 μg/kg-dry ND <</td><td>5,800 µg/kg-dry ND ND ND 33 550 ND 58,000 µg/kg-dry ND ND ND 29 700 ND 580,000 µg/kg-dry ND ND ND ND 740 ND 5,800,000 µg/kg-dry ND ND ND ND 79 ND 58,000 µg/kg-dry ND ND ND 30 280 ND 10,000,000 µg/kg-dry ND ND ND 36 J ND 7.3 ND 10,000,000 µg/kg-dry ND ND</td><td>5,800 μg/kg-dry ND ND</td><td>5,800 μg/kg-dry ND ND</td><td>5,800 μg/kg-dry ND ND</td><td>5,800 μg/kg-dry ND ND ND 33 550 ND ND</td><td>5,800 µg/kg-dry ND ND</td><td>5,800 µg/kg-dry ND ND ND 33 550 ND ND ND ND ND ND 32 58,000 µg/kg-dry ND ND</td><td>5,800 μg/Kg-dry ND ND ND 33 550 ND ND ND ND ND 32 ND 58,000 μg/Kg-dry ND 31 ND 58,00,000 μg/Kg-dry ND ND</td><td>5,800 μg/kg-dry ND ND ND 33 550 ND ND ND ND 32 ND 58,000 μg/kg-dry ND N</td><td>5,800 μg/Kg-dry ND ND ND 33 550 ND ND</td></t<>	5,800 μg/kg-dry ND ND ND 33 550 58,000 μg/kg-dry ND ND ND 29 700 580,000 μg/kg-dry ND ND ND ND 21 310 5,800,000 μg/kg-dry ND ND ND ND ND 740 5,800 μg/kg-dry ND ND ND ND ND 79 58,000 μg/kg-dry ND ND ND ND 30 280 10,000,000 μg/kg-dry ND ND ND ND ND 7.3 140,000 μg/kg-dry ND ND ND ND ND ND ND 820,000 μg/kg-dry ND <	5,800 µg/kg-dry ND ND ND 33 550 ND 58,000 µg/kg-dry ND ND ND 29 700 ND 580,000 µg/kg-dry ND ND ND ND 740 ND 5,800,000 µg/kg-dry ND ND ND ND 79 ND 58,000 µg/kg-dry ND ND ND 30 280 ND 10,000,000 µg/kg-dry ND ND ND 36 J ND 7.3 ND 10,000,000 µg/kg-dry ND ND	5,800 μg/kg-dry ND ND	5,800 μg/kg-dry ND ND	5,800 μg/kg-dry ND ND	5,800 μg/kg-dry ND ND ND 33 550 ND ND	5,800 µg/kg-dry ND ND	5,800 µg/kg-dry ND ND ND 33 550 ND ND ND ND ND ND 32 58,000 µg/kg-dry ND ND	5,800 μg/Kg-dry ND ND ND 33 550 ND ND ND ND ND 32 ND 58,000 μg/Kg-dry ND 31 ND 58,00,000 μg/Kg-dry ND ND	5,800 μg/kg-dry ND ND ND 33 550 ND ND ND ND 32 ND 58,000 μg/kg-dry ND N	5,800 μg/Kg-dry ND ND ND 33 550 ND ND

				Sample ID	SB-39 0'-2'	SB-39 2'-4'	SB-40 0'-2'	SB-40 2'-4'	SB-41 0'-2'	SB-41 2'-4'	SB-42 0'-2'	SB-42 0'-2' DUPE-4	SB-42 2'-4'	
	SCREENING LEVELS	ACTION LEVELS		Collection Date	12/15/14	12/15/14	12/15/14	12/15/14	12/16/14	12/16/14	12/16/14	12/16/14	12/16/14	
Potential On-Site Constituents (POSCs)	USEPA Region 5 RCRA (µg/kg)	OEPA Industrial / Commercial (μg/kg)	Units	Collection Time	15:15	15:25	16:30	16:50	8:10	8:40	8:15	8:15	8:25	
benzo(a)anthracene	5,210	58,000	μg/Kg-dry		ND	ND	16	ND	ND	ND	ND	9.3	ND	
benzo(a)pyrene	1,520	5,800	μg/Kg-dry		ND	ND								
benzo(b)fluoranthene	N/A	58,000	μg/Kg-dry		ND	ND								
benzo(k)fluoranthene	148,000	580,000	μg/Kg-dry		ND	ND								
chrysene	4,730	5,800,000	μg/Kg-dry		ND	ND	4.8 J	ND	ND	ND	ND	ND	ND	
dibenzo(a,h)anthracene	18,400	5,800	μg/Kg-dry		ND	ND								
indeno(1,2,3-c,d)pyrene	109,000	58,000	μg/Kg-dry		ND	ND								
Acetone	2,500	110,000,000	μg/Kg-dry		7.4	5.0	18.0	24	12	ND	28	28	ND	
Benzene	255	140,000	μg/Kg-dry		ND	ND								
Toluene	5,450	820,000	μg/Kg-dry		1.4 J	ND	ND	1.5 J	1.8 J	ND	ND	ND	ND	
Ethylbenzene	5,160	480,000	μg/Kg-dry		ND	ND								
xylenes	10,000	260,000	μg/Kg-dry		ND	ND								
Isopropylbenzene (cumene)	N/A	270,000	μg/Kg-dry		ND	ND								
naphthalene	99	450,000	μg/Kg-dry		ND	ND								
isopropyl alcohol	N/A	N/A	μg/Kg-dry		ND	ND								
pH (Laboratory)	N/A	N/A	s.u.		8.3	8.3	8.6	8.5	8.7	8.0	6.7	6.1	5.7	
TTPC	N/A	859,330	μg/Kg		22.50	16.20	68.3	9.09	3.61	ND	ND	0.396	ND	
PID	N/A	N/A	ppm		10.6	14.8	3.2	NT	1.7	2.8	0.1	NT	0.4	
NA - Not Applicable NT - Not Applicable/Not Test ND = Not Detected above mo	= Detected above method limit but below the limit of quantitation													

	Soil Boring Groundwater Quality Summary Table															
	Table 7															
			Sample ID	GP 08	GP 19	GP 22	GP 23	GP 24	GP 26	GP 28	SB 15W	SB 20W	SB 21W	SB 31W	SB 20W DUP-5	
	Screening Levels		Collection Date	12/17/2014	12/17/2014	12/16/2014	12/17/2014	12/17/2014	12/17/2014	12/16/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	12/18/2014	
Potential On-Site Constituents (POSCs)	Ohio EPA Ground Water (μg/L)	Units	Collection Time	12:45	12:15	15:55	10:00	9:15	8:10	13:55	14:00	12:00	13:20	8:50	12:10	
benzo(a)anthracene	0	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
benzo(a)pyrene	0	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
benzo(b)fluoranthene	N/A	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
benzo(k)fluoranthene	0	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
chrysene	3	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
dibenzo(a,h)anthracene	0	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
indeno(1,2,3-c,d)pyrene	0	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
Acetone	14,000	μg/L		3.4 J	ND	3.8 J	ND									
Benzene	5	μg/L		ND	0.63 J	0.72 J	ND	0.66 J								
Toluene	1,000	μg/L		ND	1.8 J	ND	0.41 J	ND	ND							
Ethylbenzene	700	μg/L		ND												
xylenes	10,000	μg/L		ND	1.0 J	1.0 J	ND									
Isopropylbenzene	450	μg/L		ND												
naphthalene	40,000	μg/L		ND	0.88 J	ND	ND	0.79 J								
isopropyl alcohol	N/A	μg/L		ND	N/A	N/A	ND	ND	ND	N/A	ND	ND	ND	ND	ND	
pH (laboratory)	6.5-8.5	s.u.		7.09	7.09	7.09	6.66	7.02	6.2	N/A	7.3	7.1	7.0	6.89	7.06	
TTPC	1	μg/L		ND	ND	ND	ND	ND	ND	RP	ND	ND	ND	ND	ND	
J = Detected above method limit bu NA - Not Applicable																
* TTPC screening level developed by	OEPA EcoSar assessment															
NT - Not Applicable/Not Tested																
ND = Not Detected above method li	mit			. —												
Detected above or outside of screen	ning or action level															
The state of the s																

Table 8

EISENBARTH PAD SOIL SAMPLING DATA
USEPA Split Sample Locations

Borings SB-16, SB-35, and SB-41 (0' -2' intervals)

Sample ID	Collection Date	Collection Time	Analytes	Penn E & R Results	START Results	Units	SCREENING LEVELS USEPA Region 5 RCRA (µg/Kg)	ACTION LEVELS OEPA Industrial /Commercial (μg/Kg)
			benzo(a)anthracene	16	ND	μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	13	ND	μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	14	ND	μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	5.5J	ND	μg/Kg-dry	1 48,000	580,000
			chrysene	7.8J	ND	μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND	ND	μg/Kg-dry	18,400	5,800
			indeno(1,2,3-c,d)pyrene	10	ND	μg/Kg-dry	109,000	58,000
			Acetone	ND	ND	μg/Kg-dry	2,500	110,000,000
SB-16 / 0'-2'	12/4/2014	11:15	Benzene	ND	ND	μg/Kg-dry	255	140,000
30 10 / 0 2	12/4/2014	11.13	Toluene	ND	ND	μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND	ND	μg/Kg-dry	5,160	480,000
			xylenes	ND	ND	μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND	ND	μg/Kg-dry	N/A	270,000
			naphthalene	ND	ND	μg/Kg-dry	99	450,000
			isopropyl alcohol	ND	ND	μg/Kg-dry	N/A	N/A
			pH	8.4	9.1	s.u.	N/A	N/A
			*TTPC	720	581	µg/Кg	N/A	859,330
			PID	1.2	NA	ppm	N/A	N/A
			benzo(a)anthracene	ND	ND	μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND	ND	μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND	ND	μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND	ND	μg/Kg-dry	1 48,000	580,000
			chrysene	ND	ND	μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND	ND	μg/Kg-dry	18,400	5,800
			indeno(1,2,3-c,d)pyrene	ND	ND	μg/Kg-dry	109,000	58,000
			Acetone	ND	15	μg/Kg-dry	2,500	110,000,000
SB-35 / 0'-2'	12/15/2014	9:55	Benzene	ND	ND	μg/Kg-dry	255	140,000
35 33 / 0 2	12/13/2014	3.33	Toluene	ND	ND	μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND	ND	μg/Kg-dry	5,160	480,000
			xylenes	ND	ND	μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND	ND	μg/Kg-dry	N/A	270,000
			naphthalene	ND	ND	μg/Kg-dry	99	450,000
			isopropyl alcohol	ND	ND	μg/Kg-dry	N/A	N/A
			pH	8.1	9.1	s.u.	N/A	N/A
			*TTPC	6,470.00	5,220.00	µg/Кg	N/A	859,330
			PID	0.7	NA	ppm	N/A	N/A
			benzo(a)anthracene	ND	ND	μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND	ND	μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND	ND	μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND	ND	μg/Kg-dry	1 48,000	580,000
			chrysene	ND	ND	μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND	ND	μg/Kg-dry	18,400	5,800
			indeno(1,2,3-c,d)pyrene	ND	ND	μg/Kg-dry	109,000	58,000
			Acetone	12	ND	μg/Kg-dry	2,500	110,000,000
SB-41 / 0'-2'	12/16/2014	8:10	Benzene	ND	ND	μg/Kg-dry	255	140,000
30 41 / 0 2	12/10/2014	0.10	Toluene	1.8 J	ND	μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND	ND	μg/Kg-dry	5,160	480,000
			xylenes	ND	ND	μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND	ND	μg/Kg-dry	N/A	270,000
			naphthalene	ND	ND	μg/Kg-dry	99	450,000
			isopropyl alcohol	ND	ND	μg/Kg-dry	N/A	N/A
			pH	8.7	9.6	s.u.	N/A	N/A
			*TTPC	3.61	37.40	μg/Kg	N/A	859,330
					NA	ppm	N/A	

J = The result is between the Method of Detection Limit and LOQ LOQ = Limit of Quantitation

* TTPC Soil Screening Levels are preliminary and based on published Koc values and EPA Guidelines for Sediment Equilibrium Partitioning

ND = Not Detected NA = Not Applicable

APPENDIX A

Boring Logs



BORING ID SB-1
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	CMH/AC	BORING DEPT	H (ft bgs)		4.5	DATE	11/24/2014	
DRILLER(s)		WATER LEVEL	N	<u>4</u> ft	bgs	SAMPLE TIME _	14:35	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	HIGH WIND	S, OVERCAS	ST	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	60	's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
2			7 8 7 14 7 7 9 50/5	1.5' 2' 2' 2'	0.5	13:50	2	BROWN SILTY CLAY, SMALL STONES, MOIST BROWN MOTTLED CLAY, MOIST RED (DARK) SILTY CLAY, DRY STONE FRAGMENTS, LIGHT GRAY SHALE BROWN SHALE - SILTY, DRY
6 				5"	0.8	14:35	8	REFUSAL @ 4.5'

ELEV: 1297.93

LAT: 39°41'53.57" N

LON: 80°53'55.24" W



BORING ID SB-2

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

					(
GEOLOGIST	CMH/AC	BORING DEPT	H (ft bgs)	4.5	DATE	11/24/2014	
DRILLER(s)	1 01	WATER LEVEL	NA	ft bgs	SAMPLE TIME _	14:35	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	HIGH WINDS, OV	ERCAST	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	60's		SAMPLE DESC.	era-	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0	8						0	
			2					ORGANIC MATERIALS
-	-		2					BROWN SILT, TRACE GRAY SILT, SOME
⊢ ∣	-		36	V/4 154	0.4	14:45	_	CLAY, MOIST
_		94	50/5	1.4'				GRAY SHALE, DRY
2	3						2	
_	,,		50/3	0.3'			_	GRAY SHALE, DRY
	**					7.1 ee	-	
_					0.8	14:55	_	
_							_	
4			50/0	0.01	-	·^	4	PROMAL REP OLIVIE - PRV
_			50/3	0.3'	14		_	BROWN-RED SHALE, DRY
_					,	45.40	_	
_	- :				1	15:10	-	
—							_	*
6							6	
_	= [_				-	
							_	
_	- 4:		-	-			_	
— .						-	_	
8							8	
_	_						_	
_	#8					=	-	
_	-						_	
10							10	

ELEV: 1296.31

LAT: 39°41'55.57" N

LON: 80°53'53.62" W



BORING ID SB-3

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	CMH/AC	BORING DEPTH	H (ft bgs)	2	DATE	11/25/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	8:30	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS, 0	CLEAR	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	40's		SAMPLE DESC.	8	95 e

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			0			1		DARK BROWN SILT WITH
			0	6"				SHALE FRAGMENTS, MOIST
			8		0.2	8:41		
			46					
2		51					2	SHALE FRAGMENTS IN SHOE
								HARD FRACTURED
								STOPPED ON COBBLES
						9:26		
4							4	
			#)					**
	==							
_								
— 6							6	
_				9			_	
		+0						
— 8	-						8	
	y							
							_	
10							10	
	3							9

ELEV: 1295.92

LAT: 39°41'52.40" N

LON: 80°53'53.18" W



BORING ID

SB-4

PROJECT NUMBER

PROJECT NAME

EISENBARTH

SITE LOCATION

HANNIBAL, OH

GEOLOGIST	CMH/AC	BORING DEPTH	H (ft bgs)	4.5	DATE	11/25/2014	
DRILLER(s)	<u> </u>	WATER LEVEL	NA	ft bgs	SAMPLE TIME _	9:34	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS,	CLEAR	SAMPLE DEPTH		ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0246			5 9 50/4 49 50/3	0.5'	0.3	9:41	2 4 6 8 8	BROWN SILT, SANDY, MOIST GRAY SHALE, DRY GRAY SHALE, DRY
10							10	

ELEV: 1296.82

LAT: 39°41'52.06" N

LON: 80°53'52.13" W



BORING ID SB-5
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

							Committee of the Commit
GEOLOGIST	CMH/AC	BORING DEPTH	H (ft bgs)	4.5	DATE	11/25/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	10:20	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS,	CLEAR	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.		A1

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0	=		12 40	1.0'	0.4	10:23	0	BROWN SILT, GRAVEL, MOIST GRAY SHALE, DRY
2	te 8	11	50/4 38	1.0	0.4	10:37	2	GRAY SHALE, DRY
E	- - -		50/4	0.7'	0.4			
4			50/5	0.25'	0.4	10:46	4	BROWN SHALE, DRY
<u> </u>			38			11:01	6	BROWN SHALE, DRY
Ē,			50/4	0.75'	0.5		8	
10	, and the second	is .					10	

ELEV: 1296.05

LAT: 39°41'51.33" N

LON: 80°53'52.23" W



BORING ID SB-6

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	CMH/AC	BORING DEPTH	l (ft bgs)	27	DATE	11/25/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	11:20	
DRILLING CO.	GEO-ENVIRONMENTAL HOLLOW STEM AUGER /	WEATHER	LIGHT WINDS, C	LEAR	SAMPLE DEPTH		_ft bgs
METHOD	SPLIT SPOON	TEMP	40's	- 1	SAMPLE DESC.		-

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			8			11:30		BROWN SILT, SAND, MOIST
_	-		10					
_			5	1.0'	0.3		100	
—			5				_	
²	§		4			11:40	2	
_			4 5	1.55'	0.5	11,40	lia-	BROWN SILT, MOIST
_			8	1.55	0.5		_	BROWN SILT, WOIST
-	-		6				Ma	BROWN SHALE, DAMP
⊢ ₄	-							
	3	•	8			11:44		
			9	1.15'	0.4			BROWN SILT, CLAY, SHALE, MOIST
			5					2
			4					V
6						workson Willesop	6	
_			4	3 31		11:50		
_	12 =		4	0.6'	0.2			BROWN SILT, CLAYSTONE-
_	_		5				_	SHALE, MOIST
– ,			6		-			
8							8	
		8'	- 9' NO	SAMPLE			No.	
			3			12:00		9.0 DARK RED SHALE, DAMP
	0.44		4	1.7'	0.5			9.5 BROWN SANDY CLAY, MOIST
10	9' - 11'		6				10	
			7					

ELEV: 1295.54

LAT: 39°41'55.15" N

LON: 80°53'55.94" W



BORING ID	SB-6
PROJECT NUMBER	NM6484
PROJECT NAME	EISENBARTH
SITE LOCATION	HANNIBAL, OH

GEOLOGIST	CMH/AC	BORING DEPTH	H (ft bgs)	27	DATE	11/25/2014	
DRILLER(s)		WATER LEVEL	NA .	ft bgs	SAMPLE TIME _	11:20	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS, O	CLEAR	SAMPLE DEPTH	iii	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10	16						10	CONTINUED FROM PAGE 1
								DAMP WEATHERED CLAYSTONE
_ 11							11	SHALE, IRONING STAINING
			3			12:14		RED-BROWN CLAYSTONE
-	к.		7	0.6'	0.3	· 		WEATHERED MOIST SOFT
12			er e				12	
			5			12:25		RED-BROWN CLAYSTONE MOIST
			4					BROWN-SILTSTONE, WET
= =			4	1.8'	0.4			13.3 WEATHERED SILTSTONE/SHALE, DRY
			10					
14	9						14	
			4			12:32		
•			5				_	BROWN, TRACES OF RED SILTSTONE
			10	3		8	_	MOIST
			7	1.6'	0.4			45.0 DDV OUTOTONE/CUALE
16						10.10	16	15.3 DRY, SILTSTONE/SHALE
t.			8			12:46	_	BROWN CLAYEY-SILT, MOIST
			13					BROWN CLATET-SILT, MOIST
Ú		-	7	1.8'	0.6		-	LIGHT BROWN SILT/CLAY STONE, DRY
	140		8	1.0	0.0			EIGHT BROWN SIET/CLAT STONE, BIXT
18			7			12:58	18	
			7			12.56	33====	
			10	10				19.0 WEATEHRED CLAY STONE/CLAY
			10	1.4'	0.8		_	DAMP
20			"	4.7	0.5	8	20	19.5 RED BROWN CLAY, DAMP
	_					N		



BORING ID SB-6
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

					The second secon		
GEOLOGIST	CMH/AC	BORING DEPTH	H (ft bgs)	DATE	11/25/2014		
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	11:20	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS, C	LEAR	SAMPLE DEPTH		ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20			7 8 17 23	1.7'	0.7	13:00	20	BROWN SILTY CLAY, MOIST RED SILTY CLAY, MOIST
22		a	10 6 7 10	1.8'	0.7	13:10	22	RED SILTSTONE, DRY REDDISH BROWN SILTSTONE, DRY DARK BROWN SILTY CLAY, MOIST, SOFT
24			11 37 50/4	1.6'	1	13:25	14	BROWN CLAY SILT, MOIST
26	-		35 50/3	0.7'	0.2	13:48	16	BROWN REDDISH SILTY CLAY MOIST TO DRY
28	2			Q.			18	
30					P	9	20	



BORING ID SB-7

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

	1					
CMH/AC	BORING DEPTH	l (ft bgs)	DATE	11/25/2014		
y .	WATER LEVEL	NA	ft bgs	SAMPLE TIME _	14:55	
GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS, O	CLEAR	SAMPLE DEPTH		_ft bgs
SPLIT SPOON	TEMP.	40's	11	SAMPLE DESC.	Secretary and the second	7
	GEO-ENVIRONMENTAL HOLLOW STEM AUGER /	GEO-ENVIRONMENTAL WEATHER	WATER LEVEL NA GEO-ENVIRONMENTAL WEATHER LIGHT WINDS, OR A CONTROL OF THE CONTRO	WATER LEVEL NA ft bgs GEO-ENVIRONMENTAL WEATHER LIGHT WINDS, CLEAR HOLLOW STEM AUGER /	WATER LEVEL NA ft bgs SAMPLE TIME GEO-ENVIRONMENTAL WEATHER LIGHT WINDS, CLEAR SAMPLE DEPTH HOLLOW STEM AUGER /	WATER LEVEL NA ft bgs SAMPLE TIME 14:55 GEO-ENVIRONMENTAL WEATHER LIGHT WINDS, CLEAR SAMPLE DEPTH HOLLOW STEM AUGER /

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
°			35 30			14:55	0	LIGHT GRAY SILTY SAND, GRAVEL, DRY
2		×.	27 25	1.3'	0.5	5	2	
Ε	* ^		32 50/3	0.9'	0.3	15:05	=	RED SILTY CLAY/SHALE, DRY
4		5	39 50/3	1.0'	0.5	15:15	4	RED CLAY/SHALE, DRY
	п	>	30/3	1.0	0.5	5	6	
8	4)					\$8	8	
E			- 1		8		-	
10	=						10	

ELEV: 1296.75

LAT: 39°41'52.15" N

LON: 80°53'54.56" W



BORING ID

SB-8

PROJECT NUMBER

NM6484

PROJECT NAME

EISENBARTH

SITE LOCATION

HANNIBAL, OH

GEOLOGIST	CMH/AC	BORING DEPTH	H (ft bgs)	4.5	DATE	11/25/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME	15:30	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS, (CLEAR	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0			27 22		-	15:30	0	LIGHT GRAY SILTY SAND & GRAVEL, DRY
	10 , 1		19 17	1.3'	0.7	,	Ξ	
²	-		50/4	0.25'	0.1	15:35	2	LIGHT GRAY SILTY SAND & GRAVEL, DRY
_ 4	_ 1.30					15:40	4	LIGHT GRAY CLAY/SHALE, DRY
_ _ _ _ _	-		50/5	0.50'	0.2		6	
	-						8	
_	= u							
10							10	

ELEV: 1296.65

LAT: 39°41'51.74" N

LON: 80°53'54.16" W



BORING ID SB-9
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	ΓH (ft bgs)	4.5	DATE	12/3/2014	
DRILLER(s)	1 100	WATER LEVE	LNA	ft bgs	SAMPLE TIME _	10:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., LIGHT WIND	& RAIN	SAMPLE DEPTH	8	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.	0	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0						I	0	
	W.		19			10:32		PAD SURFACE-GRAVEL W/SAND, WET
			20			1	_	
			33		50 60			1.0 MOTTLED LIGHT BROWN/BROWN
			20	0.8'/2'	0.4	(3)		CLAY, DRY/DAMP, STIFF
2	**						2	
_			18	(<u>1</u>	202	10:37	_	2.0 DARK BROWNISH-RED
_			50/4"	0.9'	0.6		_	CLAY STONE/SHALE, WEATHERED,
<u> </u>								FRACTURED, DRY
—								
—— ⁴	20 - x -					10:44	4	SHALE BECOMES YELLOWISH-BROWN
_	27		50/5"	0.4'	0.1	10.44	_	SHALE BECOMES TELLOWISH-BROWN
-	= =		50/5	0.4	0.1		-	REFUSAL @ 4.5'
-	-						_	- KEI OOAL @ 4.5
— 6						Į	_	16
°				39			- 0	
								1
_	18		-				_	-
—		1				16		-
— 8							8	
								1
			92			ı	-	
						ı		
10							10	

ELEV: 1296.11

LAT: 39°41'51.13" N

LON: 80°53'53.74" W



BORING ID SB-10

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	H (ft bgs)	4.8	DATE	12/3/2014	
DRILLER(s)		WATER LEVEL	_ NA	ft bgs	SAMPLE TIME _	11:00	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT WIND	& RAIN	SAMPLE DEPTH		ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's	1	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			9			11:05		PAD SURFACE-GRAY GRAVEL, W/SAND
	_		19				_	DRY, DENSE
_			20	4.01	4.5			
- .		-	12	1.8'	1.5	2		
2			10		-	11:20	2	GRAY WEATHERED SHALE
_			50/5"	0.8'	0.6	11.20	_	DRY, FRACTURED
_	-		00/0	-	0.0	1	_	
_	-				-		-	
4							4	v
	-		20			11:25		YELLOWISH-BROWN SHALE
			50/3"	0.7'	0.4			REFUSAL @ 4.8'
- 7	_				5			
	_						 	
6	20						6	
	-							
_			-				-	
-							_	
– 8					-		8 —	
								-
10						91	10	
					-			

ELEV: 1296.81

LAT: 39°41'51.14" N

LON: 80°53'54.52" W



BORING ID SB-11

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	ΓH (ft bgs)	4.5	DATE	12/3/2014
DRILLER(s)		WATER LEVE	LNA	ft bgs	SAMPLE TIME _	12:30
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., LIGHT WINE	& RAIN	SAMPLE DEPTH	ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			12			12:40		PAD SURFACE-GRAVEL & SAND
			19	1				GRAY-DAMP
			11					<u> </u>
			9	1.5'	1.4			RED CLAY, MEDIUM STIFF
2							2	DAMP
			25			12:50		LIGHT YELLOW BROWN CLAYSTONE/
			50/4"	0.8'	0.2	S .		SHALE, WEATHERED, DRY,
			-0.00-do					FRACTURED
	#							
4			<u> </u>				4	
	_		50/5"	0.5'	0.8	13:00		LIGHT YELLOW BROWN CLAYSTONE/
			20.0000					SHALE, WEATHERED, DRY,
								FRACTURED
	, n							REFUSAL @ 4.5'
6							6	
								1
							-	
8	**						8	
	45							
			:3					
10						1	10	8

ELEV: 1296.88

LAT: 39°41'51.25" N

LON: 80°53'55.39" W



BORING IDSB-12PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	H (ft bgs)	N .	4.5	DATE	12/3/2014	
DRILLER(s)		WATER LEVEL		NA	ft bgs	SAMPLE TIME _	13:25	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., LIG	HT WINE	& RAIN	SAMPLE DEPTH	8	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			10			13:30		PAD SURFACE- GRAVEL, GRAY-DRY/DAMP
		" = "	25					W/SAND
	iii		20	W				
			16	1.8'	0.8			1.7 MEDIUM GRAY WEATHERED
2	V						2	SHALE, DRY, STIFF
	-		18			13:45	100	MEDIUM GRAY WEATHERED
	-		50/5"	0.8'	0.4			SHALE, DRY, STIFF
			8					
			-			90		
— "	84		39			13:55	4	YELLOW BROWN, DRY
			50/5"	0.6'	0.3			STIFF, WEATHERED
	۰							FRACTURED
-	10	-						
6							6	STOPPED BORING @ 4.5'
	Ξ.				4		_	
-						-	_	
-				-			-	
8							8	
-						×		
_								
							_	
10		-					10	

ELEV: 1296.99

LAT: 39°41'51.82" N

LON: 80°53'55.09" W



BORING ID SB-13

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	ΓH (ft bgs)	4.5	DATE	12/3/2014	9
DRILLER(s)	В	WATER LEVE	LNA	ft bgs	SAMPLE TIME _	14:25	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., LIGHT WIN	D & RAIN	SAMPLE DEPTH		ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			13			14:25		PAD SURFACE-GRAVEL & SAND
			15					DAMP, MEDIUM GRAY
			18					
	141		24	1.5'	0.7			1.3 LIGHT GRAY SHALE, WEATHERED
2				31511			2	FRACTURED CLAY
	12		24			14:35		2.0 LIGHT GRAY SHALE, WEATHERED
			50/3"	0.8'	0.9	39		FRACTURED CLAY
						w		
4					į		4	
			27			14:40		LIGHT YELLOWISH BROWN SHALE
			50/3"	0.7'	1.1			DRY, FRACTURED, WEATHERED
								6
								REFUSAL @ 4.5'
6							6	
_						220	-	
_								
8							8	
_	-							
_	6							
<u> </u>							_	
10							10	

ELEV: 1296.51

LAT: 39°41'52.26" N

LON: 80°53'55.06" W



BORING ID	SB-14
PROJECT NUMBER	NM6484
PROJECT NAME	EISENBARTH
SITE LOCATION	HANNIBAL, OH

GEOLOGIST	СМН	BORING DEP	TH (ft bgs)	20	4.5	DATE	12/3/2014	
DRILLER(s)	and the same	WATER LEVE	L	NA	ft bgs	SAMPLE TIME _	15:10	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., LIG	HT WINE	& RAIN	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			16			15:15		PAD SURFACE-GRAVEL & SAND
			18				/	DARK GRAY, DAMP
		-	14				14 1/	
			11	1.5'	2		100	1.8 DARK GRAY SAND, WET
2							2	1.9 REDDISH BROWN WEATHERED SHALE, DRY
			18			15:35	80-	
			10				V/	
			15					
			50/5"	1.5'	1.7	77)		3.5 BECOMES YELLOW BROWN SHALE
4	-		u u				4	FRACTURED/WEATHERED, DRY
			50/5"	0.5'	0.7	15:45		4.5 YELLOWISH BROWN SHALE
					*			DRY, FRACTURED/WEATHERED
			-				3	REFUSAL @ 4.5'
_ 6				=	-		6	112.00.12 @ 110
	-		_				2	
		111					<u> </u>	
	- 1							
							0	
							-	
_							- 10	
— 10					N	ia ia	10	
							10	

ELEV: 1296.62

LAT: 39°41'53.11" N

LON: 80°53'56.12" W



BORING IDSB-15PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEP	TH (ft bgs)	29	DATE	12/3/20	14 to 12/4/2014
DRILLER(s)	1	WATER LEVE	L 26	ft bgs	SAMPLE	TIME	16:35
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., LIGHT WIN	ID & RAIN	SAMPLE	DEPTH _	ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE	DESC	<u>.</u>

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	Δ
			0			16:35		BERM-FILL
			0					SILT W/SAND & GRAVEL
			0					MOIST, SOFT, ORANGE BROWN
			2	0.5'	0.0			\$
_ 2							2	
			13			16:40		PAD SURFACE-GRAVEL &DARK GRAY SAND
			10					
			10	1.1'				3.1 OLIVE BROWN WEATHERED
			2		0.0	19		SHALE& CLAY, DAMP
4	#C		100000		1		4	3.8 DARK READ WEATHERED SHALE, FRACTURED, DAMP
			6			16:50		4.0 DARK OLIVE BROWN SHALE
		=	10	0.4'		25		FRACTURED, DAMP W/SOME CLAY
			6	Additional			-	
_			6		0.0			
– 6				22			6	
			3			17:00		6.0 BECOMES DARK RED
	, ,	-	10			9	_	HIGHLY FRACTURED, DAMP
_			6	1.5'			_	
-			6	,	0.0			7.6 YELLOW BROWN FRACTURED
<u>ا</u> ه							8	SHALE, DRY
├ ─ ゚	.tg		4	F.:				
- -			4					9.2 DARK RED CLAY W/SHALE
-			3	1.3'				FRAGMENTS, DAMP
			16				-	9.8 YELLOW BROWN FRACTURED
10			10				10	SHALE, DRY
- 1º					-		10	

ELEV: 1298.05

LAT: 39°41'52.90" N

LON: 80°53'56.56" W



BORING ID SB-15

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST .	СМН	BORING DEPTH (1	ft bgs)	29	DATE	12/3/201	4 to 12/4/2014
DRILLER(s)		WATER LEVEL	26	ft bgs	SAMPLE TIM	E	16:35
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAF	?	SAMPLE DE	PTH _	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20's	201	SAMPLE DES	SC	7

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10			ji V				10	
			10			17:30		YELLOW BROWN FRACTURED
			14					SHALE & CLAY, DRY
			11					
			8	1.4'	0.0			
12							12	
			5			7:40		12.0 DARK RED FRACTURED SHALE, DAMP
			6					12.5 YELLOW BROWN FRACTURED SHALE,
			7					DRY
			5	1.1'	0.0			13.0 YELLOW BROWN SAND & CLAY,
14							14	DAMP
			11			8:00		14.0 YELLOW BROWN FRACTURED SHALE,
			6				_	DRY
_			6	W. Soleni	50000			15.0 YELLOW BROWN SANDY CLAY, DAMP
_			7	1.2'	0.0		_	
16			Augus			1/20	16	
			5			8:20	_	16.0 RED BROWN CLAY, MEDIUM SOFT, WET
	=		9					
			29				_	17.0 YELLOW BROWN SHALE, WEATHERED
	7		30	1.6'	0.0			FRACTURED, DRY
18	>						18	
_			11			8:25	_	18.0 YELLOW BROWN CLAY W/SHALE
_	D. I		13					FRAGMENTS, DRY
_			8	4.61			_	
_		5	10	1.2'	0.0		_	
20							20	



BORING ID SB-15

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

the second secon							701
GEOLOGIST	СМН	BORING DEPTH (f	t bgs)	29	DATE	12/4/2014	
DRILLER(s)		WATER LEVEL	26	_ft bgs	SAMPLE TIME _	8:35	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAR		SAMPLE DEPTH	N-	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20's		SAMPLE DESC.	0	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
	8		5			8:35		YELLOW BROWN CLAY W/SHALE
	181		6					FRAGMENTS, DAMP
			6					1
8 N			27	1.3'	0.0	181		21.7 OLIVE GRAY SHALE, WEATHERED,
22							22	FRACTURED, DRY
<u> </u>			9			8:45		22.0 OLIVE GRAY SHALE, WEATHERED,
			11					FRACTURED, DRY
			14					
			6	1.4'	0.0			23.7 RED BROWN CLAY/WEATHERED
24							24	SHALE, DAMP, FRACTURED
			6			8:55		
			9					
			3					25.6 SANDY GRAVEL-MOIST, LOOSE
			8	1.3'	0.0			1/4" PEEBLES W/SAND, PEEBLES ARE
26	2						26	FRACTURE & SOME WELL ROUNDED, BROWN
	-		2			9:15		& DARK GRAY PEEBLES
		9.0	7	15			Name of the last	26.0 PEA GRAVEL, WELL ROUNDED,
			21					1/4" -3/8" DIAMETER-WET
<u> </u>	6		50/5"	1.5'	0.0		1	27.0 DARK RED WEATHERED SHALE
28							28	DAMP, SOME MOTTLING
	22	10	25			9:25	-	
		7.1	50/2"	0.5'				
					0.0			II II
30							30	8
	124							



BORING ID SB-16

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH (1	ft bgs)	13.5	DATE	12/4/2014	
DRILLER(s)		WATER LEVEL	NA	_ft bgs	SAMPLE TIME _	11:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAR		SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0						4445	0	PAD- GRAY GRAVEL & SAND, WET
_			0			11:15		
_	_		5			N.		1.0 DARK GRAY SAND, STRONG ODOR,
-			5	10 10000	1 100			WET, SOME SILT/CLAY
_			10	1.0'	1.2			1.5 SHALE FRAGMENT, YELLOW-
2	// mi						2	BROWN, WEATHERED, DRY
_	-		11			11:20		2.0 YELLOW BROWN SILT W/SHALE
			11					FRAGMENTS, WET
			7					3.0 DARK BROWN SHALE, FRACTURED, DAMP
_			5	0.8'	0.8			3.2 BROWN SILT W/SHALE
- 4							4	FRAGMENTS, DAMP
			3			11:25		4.0 RED BROWN SILT W/SHALE
			3			2.		FRAGMENTS, DAMP
			3					5.0 PEA GRAVEL, DAMP
-			6	0.8'	0.8			W/SAND, LOOSE, BROWN
6							6	
			5			11:35		
-			7					6.5 RED BROWN SILT W/SHALE
			4					FRAGMENTS, DAMP
-			3	0.7'	0.7	#X		
8	-			_ ~~			8	
			3			11:42		8.0 RED BROWN SILT W/SHALE
			3		77		-	FRAGMENTS, DAMP
			2					
	_	11	8	1.4'	1.7		-	
10	6		-	1200 23	WAGANAN		10	
— '	_	-			_		,,,,	

ELEV: 1296.27

LAT: 39°41'52.85" N

LON: 80°53'56.41" W



BORING IDSB-16PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH (1	ft bgs)	13.5	DATE	12/4/2014	- Discourage of the Control of the C
DRILLER(s)	=	WATER LEVEL	NA	_ft bgs	SAMPLE TIME _	11:05	-
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAR		SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	20's	-0	SAMPLE DESC.	1	-

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			3			12:48		10.0 YELLOW BROWN WEATHERED SHALE,
-22			4					DRY, FRACTURED
			22					
			10	0.8'	0.9			11.0 BECOMES DAMP
12	0.1						12	
			28			12:55	3	12.0 DARK RED SHALE, DRY
			50/5"	0.7'	0.5			FRACTURED
								AUGER REFUSAL @ 13.5'
14	9						14	
	ii .							
	· · · · · · · · · · · · · · · · · · ·					1 0		
16	* .						16	
		1/2						
		5				-		
			1					
18							18	
	s							
					× 1			
20							20	



BORING ID SB-17

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH (1	ft bgs)	43	DATE	12/4/2014	
DRILLER(s)		WATER LEVEL	NA	_ft bgs	SAMPLE TIME _	14:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAR		SAMPLE DEPTH	3	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20's		SAMPLE DESC.	8	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
		in the	4			15:15		FILL- BROWN SILT, MOIST, SOFT
			6			Ψ.		0.2 RED BROWN SILT, DAMP
			7					
			7	1.9'	0.0			1.8 RED CLAY W/FRACTURED SHALE
2							2	FRAGMENTS, DAMP
			3			15:30		2.0 RED CLAY W/FRACTURED SHALE
			23					FRAGMENTS, DAMP
			36					
			13	0.6'	0.6			
4							4	
			8			15:35		4.0 YELLOW BROWN SILT, W/WEATHERED
			9					SHALE FRAGMENTS, DAMP
		- 0	6					
	* .		5	0.8'	0.0			5.5 OLIVE BROWN SILT W/SAND
6							6	AND WEATHERED SHALE FRAGMENTS, DRY
	=	2 1	12			15:45		6.0 MEDIUM DARK GRAY SHALE, HIGHLY
		8	15			9		WEATHERED/FRACTURED, DRY
			7					
	ē		5	1.3'	0.2			
8	7.						8	
			12			15:55		NO RETURN - SANDSTONE FRAGMENTS
			13					IN END OF SHOE, OLIVE BROWN,
			11					HARD, DRY
			12	NR	-			
10							10	

ELEV: 1263.16

LAT: 39°41'53.55" N

LON: 80°53'58.46" W



BORING ID SB-17
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH (1	43	DATE	12/4/2014		
DRILLER(s)	Λ	WATER LEVEL	NA	_ft bgs	SAMPLE TIME _	14:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAR		SAMPLE DEPTH	8	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10	8.		12				10	
			6			16:05		10.0 GRAY BROWN CLAY, W/WEATHERED
			7					SHALE, DAMP
_			9					
	Α		6	0.9'	0.1			11.5 OLIVE BROWN WEATHERED SHALE,
12							12	DRY
_	_	#1	8			16:15	_	12.0 GRAY WEATHERED SHALE, DRY
			6				_	40.4 VELLOW PROMALCUT, MAMEATHERED
_			5	1.3'	0.1		_	13.1 YELLOW BROWN SILT, W/WEATHERED SHALE FRAGMENTS, DAMP
–			6	1.3	0.1			SHALE FRAGINENTS, DAINIP
14			5		-	16:20	14	
_		-	6			10.20	_	
-			4				-	15.0 DARK GRAY WEATHERED SHALE, DRY
-			3	1.3'	0.7			15.8 DARK RED CLAY, DAMP
16				DATE:	G/85		16	
	1		7			16:25		16.0 DARK RED CLAY, DAMP
			- 6					
			5					
	II		8	1.3'	0.5			
18							18	
			3	Ú.		16:30		18.0 DARK RED CLAY, DAMP
			4					
_			7	V 1922-1	120 3			
_	II II		15	1.2'	0.4		_	
20			2				20	
							ļ	No. of the last of



BORING ID SB-17

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH (f	t bgs)	43	DATE	12/4/2014	
DRILLER(s)	The same	WATER LEVEL	NA	_ft bgs	SAMPLE TIME	14:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CALM CLEAR	_	SAMPLE DEPTH		ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20's		SAMPLE DESC.	-	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	у
	-		3			16:45		20.0 SOFT RED CLAY, DAMP
			10					
			11					
	1		13	0.5'	0.6	x-		SANDSTONE FRAGMENTS IN SHOE
22	_						22	HARD GRAY-DRY
	-		6			16:55	_	22.0 SOFT RED CLAY, DAMP
			13					
			13				il	
			12	1.5'	0.8			
24	a =						24	
			9			17:05		24.0 SOFT RED CLAY, DAMP
			13					
_	"	_	15	4.01			_	-
—	2		11	1.2'	0.8		-	
26			40			17:20	26	26 0 COET BED OLAY DAMP
			13			17:20	_	26.0 SOFT RED CLAY, DAMP
-	-	10	11 8				-	
- 1	2		5	1.3'	1.1		_	
	_		3	1.5	1.1			
28			4			12/5/2014	28	28.0 RED CLAY WITH SHALE FRAGMENTS,
		- '-	13			7:45	(-	DAMP, SOME MOTTLING
			8			7.40		BAWII , GOINE MICH TEING
			15	1.6'	0.1			
	22		'`	1.0	".		30	
							30	



BORING ID SB-17

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

								_
GEOLOGIST	СМН	BORING DEPTI	H (ft bgs)	43	DATE	12/5/2014))
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	7:45		
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OC, LIGHT RAIN	, WIND	SAMPLE DEPTH		_ft bgs	
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.	-		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
30						12/5/2014	30	
			33			8:05		30.0 RED CLAY, DAMP
			29					
			10					
	= = 5		16	1.1'	0.3			31.0 WEATHERED GRAY SHALE,
32						non recon	32	FRACTURED, DRY
			8			8:20		32.0 RED CLAY, DAMP, FEW
		-	8					YELLOW BLACK SHALE FRAGMENTS,
			11	1ຸ.9'			_	STIFF
			14		0.4			<u> </u>
34							34	<u>x</u>
			5			8:35		34.0 RED CLAY, DAMP, FEW
			8					YELLOW BLACK SHALE FRAGMENTS, STIFF
			2					35.0 YELLOW BROWN SHALE,
			50/3"	1.4'	0.3			WEATHERED/FRACTURED, DRY
36							36	35.7 DARK YELLOW BROWN SHALE
			31			8:50		W/SAND, DRY
			22					
			12					37.0 BECOMES HIGHLY FRACTURED
			23	1.1'	0.3		_	37.5 BECOMES GRAY
38							38	
	4.		11			9:10		38.0 DARK YELLOW BROWN SILT & CLAY,
		0 0	19					DAMP
	45		20	-22 -24	21 122			38.8 DARK RED BROWN CLAY,
			50/4"	2.0'	0.1			SOME SHALE FRAGMENTS, DAMP
40							40	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



BORING ID	SB-17
PROJECT NUMBER	NM6484
PROJECT NAME	EISENBARTH
SITE LOCATION	HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTI	H (ft bgs)	43	DATE	12/5/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	7:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OC, LIGHT RAIN	N, WIND	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
40							40	
			10			9:30		40.4 DARK RED BROWN CLAY, DAMP
	ti .		37					40.6 MOIST
			20					40.7 DARK YELLOW BROWN CLAY/SILT,
			25	1.6'	0.3			DAMP
42							42	41.0 YELLOW BROWN SHALE,
	= =		47 50/21	1.3'	0.1	9:45	7	HIGHLY WEATHERED/FRACTURED, DRY
Ė,		-	50/3"	1.3	0.1			43.0 BECOMES LIGHT GRAY, DRY
44							44	AUGER REFUSAL @ 43'
				- *				
			V =			£ 3		
46							46	
	-						0	
	r * *	=					17	
48	4						48	
							8	
	E		N N				50	



BORING ID

SB-18

PROJECT NUMBER

PROJECT NAME

EISENBARTH

SITE LOCATION

HANNIBAL, OH

					The second secon		
GEOLOGIST	СМН	BORING DEPTH	H (ft bgs)	33	DATE	12/5/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	11:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OC, LIGHT RAIN	I, WIND	SAMPLE DEPTH	ft	t bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0						Seption of the Seption	0	
			0			11:20		0.0-0.2 FILL - BROWN CLAY, WET
			5					0.2 DARK RED BROWN CLAY, DAMP
L		-	5					
L			4	1.6'	0.2			
├ ── ²	V-		7			11:30	2	
_			13		y T	11.30	_	
	-		10					3.5 W/LITTLE YELLOW BROWN MOTTLING,
			10	1.5'	0.3		-	DAMP
4	<u>9</u> *		10.00	0.0004400	5-230/45559		4	
			4			11:35		
			9					
			8					5.5 DARK YELLOW BROWN SILTY CLAY,
			5	1.0'	0.4			DAMP
6	0.4						6	
	1 1- 2-		5			11:45		
_			5			_ 1		Z O DECOMEO MEDU MA DECIMAL DAME
<u> </u>			8 8	1.6'	0.3		-	7.0 BECOMES MEDIUM BROWN, DAMP 7.5 BECOMES DARK GRAY, DAMP
- .			0	1.0	0.3		8	1.5 BECOMES DARK GRAT, DAMF
├ ── °			5			11:50	0	
			5			,	-	
	=		5					9.0 SOME DARK YELLOW BROWN MOTTLING
			8	1.4'	0.3			9.5 NO MOTTLING-DRY
10							10	

ELEV: 1269.70

LAT: 39°41'52.73" N

LON: 80°53'58.71" W



BORING ID SB-18

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	H (ft bgs)	DATE	12/5/2014
DRILLER(s)		WATER LEVEL	ft bgs	SAMPLE TIME _	11:05
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OC, LIGHT RAIN, WIND	SAMPLE DEPTH	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's	SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
_			5 6	=		12:00		10.0 DARK GRAY CLAYEY SILT, DAMP
_			5	= -	740		_	11.0 BECOMES MEDIUM GRAY, DRY
	- *		5	0.9'	0.4			11.5 DARK GRAY, DAMP
12	= " =>						12	
- S			4			12:05		
			4					
			6					13.0 MEDIUM YELLOW BROWN CLAYEY SILT,
			20	1.3'	0.4		_	DAMP, LITTLE SHALE FRAGMENTS
14							14	13.2 DARK RED CLAY, DAMP
			12			12:15		TRACE YELLOW BROWN SHALE FRAGM'TS
			10		8			
_	ē.		7					15.1 YELLOW BROWN SHALE
	45		6	1.0'	0.4	, o		FRAGMENTS, DRY
16							16	
			0			12:20		16.0 BECOMES MOIST
			5					0
			12					17.8 - 17.9 DARK YELLOW BROWN
	471		6	1.4'	0.5			SANDSTONE FRAGMENTS
18							18	
	1,		0			12:30		18.5 MOIST
			6					19.0 DARK YELLOW BROWN
	* = <u>.</u> =		8					SHALE FRAGMENTS
<u> </u>			5	1.8'	0.3			
20							20	
	11							V.



BORING IDSB-18PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

							_
GEOLOGIST	СМН	BORING DEPTH	H (ft bgs)	33	DATE	12/5/2014	_
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME	11:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OC, LIGHT RAIN	, WIND	SAMPLE DEPTH	ft bg:	s
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
	"		5			12:40		20.0 DARK YELLOW BROWN SHALE FRAGMENTS
			8					MOIST
	-		13					21.0 DAMP
			10	1.4'	0.4			
22							22	21.8 SANDY SHALE FRAGMENTS
			3			12:50		
			6			98	-	
			4					23.0 MOIST
			10	1.0'	0.5			23.9 DARK GRAY SANDY SHALE FRAGMENT
— 24							24	DRY
	(10)	-	4			13:00		
			5					
			6	1				25.2-25.4 SHALE FRAGMENTS, DRY
<u> </u>	18		9	1.7'	0.4			
— 26							26	
			8			13:10		26.0 CLAY, DRY
7			7					
			10					**************************************
			12	1.4'	0.5		_	27.9 DARK GRAY, SANDY SHALE, DRY
							28	
			8			13:20		DARK RED BROWN CLAY, DAMP
	50		10				-	
_		2 1 1	8		0			29.1 GRAY SANDY SHALE FRAGMENTS
-	V		12	1.0'	0.3		_	29.7 W/LITTLE YELLOW BROWN
	-						30	MOTTLING, DAMP



BORING ID SB-18

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	H (ft bgs)	33	DATE	12/5/2014	7
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	11:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OC, LIGHT RAIN	I, WIND	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	40's		SAMPLE DESC.	36	1)

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
30							30	30.0 GRAY SANDY SHALE FRAGMENTS
_	-		4			13:30		W/LITTLE YELLOW BROWN
		-	34		6			MOTTLING, DAMP
_	2		50/4"	1.4'	0.3			30.5 BECOMES YELLOW BROWN
	_							WEATHERED SHALE, DRY FRACTURED
32							32	
	[14		29			13:50		32.0 YELLOW BROWN WEATHERED SHALE, DRY
· .	_	_	50/3"	0.7'	0.5			FRACTURED
6							_	REFUSAL @ 33'
34	(a)			+1			34	
		_ =		F 5			-	Secretary of the secret
ŧ								
36							36	
_ "							30	40
			_					
	2				- 1		-	
38			-				38	
							-	B
		-						
40	_						40	· · · · · · · · · · · · · · · · · · ·



BORING ID

PROJECT NUMBER

PROJECT NAME

EISENBARTH

SITE LOCATION

HANNIBAL, OH

GEOLOGIST	СМН	BORING DEP	TH (ft bgs)	15.5	DATE	12/8/2014	
DRILLER(s)		WATER LEVE	L NA	ft bgs	SAMPLE TIME _	8:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD, CALN	/ WINDS	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.		6

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	*
			4			8:05		0.5 FILL - RED BROWN CLAY, SOFT, MOIST
		11	3					ROCK IN SHOE, LOW RETURN
			3	14 (140)				
			4	0.5'	0.0			1
2	8	20	- 0				2	2.0 RED BROWN CLAY, DAMP
_	=		3			8:20		
			6		50	85.		
-01			6			±		3.0 DARK YELLOW BROWN SILT
			5	1.8'	0.1			W/SOME SANDY SHALE FRAGMENTS, DAMP
4						esa bac-s	4	
			3		11	8:25		4.0 BROWN SILTY CLAY, DAMP
			4	7.	¥			
			5	0.500 (0.000)				×
	n.		5	0.7'	0.1			
6							6	
			8			8:30	,	6.0 DARK RED BROWN CLAY, DAMP
			5				_	
			7	j.,		#1		7.0 LIGHT GRAY SANDY SHALE FRAG'TS, DRY
			7	1.0'	0.1			7.1 DARK RED BROWN CLAY
8						0.00	8	
			3			8:35		DARK RED CLAY, DAMP
			5					
		- 1	5	2			_	A A DADIC DED CHALE ED A OMENTO DEV
			7	1.4'	0.0		_	9.4 DARK RED SHALE FRAGMENTS, DRY
10							10	

ELEV: 1273.92

LAT: 39°41'51.85" N

LON: 80°53'58.88" W



BORING ID SB-19
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	ΓH (ft bgs)	15.5	DATE	12/8/2014	
DRILLER(s)		WATER LEVE	L NA	ft bgs	SAMPLE TIME _	8:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD, CALN	WINDS	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.		1120

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	5	Lithologic Description
10							10	
			3			8:45		10.0 DARK RED CLAY, DAMP
1.7			7	;				10.7 DARK YELLOW BROWN SANDY SHALE
	167		6					FRAGMENTS, DAMP
			6	1.3'	0.0			10.8 DARK YELLOW BROWN CLAY, DAMP
12							12	· = = = = = = = = = = = = = = = = = = =
	- 1		3			8:50		12.0 DARK RED BROWN CLAY
_		. 9	5					DAMP, OCCASSIONAL
			5					DARK YELLOW BROWN SHALE
			6	1.8'	0.0		-	FRAGMENTS
-				0.000			14	- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
			3			9:00		
_			21			1,000,000,000,000	_	14.6 MEDIUM YELLOW SANDY SHALE, DRY
_	=		50/1"	1.4'	0.0			
		0 0		7232 52	20000000	a1		AUGER REFUSAL @ 15.5'
—							16	
						-		
				5			_	-
_						10	-	×
_	5						_	V-31
							18	terror control of the second o
—— ¹⁰					_		10	
	-		-	-				
_			⊕				_	
	10	= _					_	
				-		3.	,,, -	
20							20	



BORING ID SB-20
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН/ТС	BORING DEP	TH (ft bgs)		39	DATE	12/8/2014	
DRILLER(s)		WATER LEVE	L	36	ft bgs	SAMPLE TIME _	9:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., CO	LD, CALI	M WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	PAD-LIGHT GRAY GRAVEL W/SILTY SAND,
			6			9:45		DAMP
			6		4			0.2 MEDIUM YELLOW BROWN SILT, DAMP
	100		6					
	Vi Vi		6	1.3'	0.0			
2							2	
	* 8		3			9:55		2.0 MEDIUM YELLOW BROWN
			5					SILY CLAY & SHALE, GRAVEL,
Di .		-	5			**		DAMP
			7	1.3'	0.0			
4							4	
			5			10:05		4.0 YELLOW AND BROWN SILTY
			6					CLAY & SHALE, GRAVEL
			7	V 8 56				W/GRAY SILTY LAYER @ 5.0'-5.1' MOIST
			5	1.7'	0.0		_	
6	3						6	
_			7		-	10:10	_	6.0 YELLOW & LITTLE BROWN SILTY
_		-	6				_	CLAY W/SHALE, GRAVEL, DRY
_			5					
_			9	1.25'	0.0			
8						40.45	8	O OL O SLAVELL OW BEOMAL OF TA
_			5			10:15	_	8.0'-8.5' YELLOW BROWN SILTY
—			9	li .	-11			CLAY WITH LITTLE GRAVEL
—			9	1.75'	0.0			8.5'-10.0' YELLOW MEDIUM SILTY CLAY
<u> </u>			9	1.75	0.0			WITH SHALE GRAVEL, DRY
10							10	WITH SHALE GRAVEL, DIXT

ELEV: 1295.53

LAT: 39°41'53.78" N

LON: 80°53'56.53" W



BORING ID SB-20
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEF	PTH (ft bgs)	39	DATE	12/8/2014		
DRILLER(s)	11 8	WATER LEV	EL36	ft bgs	SAMPLE TIME _	9:40		
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., COLD, CALM	M WINDS	SAMPLE DEPTH		_ft bgs	
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.			

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	Į.	Lithologic Description
10							10	
			6			10:25		10.0 YELLOW BROWN SILTY CLAY MOSTLY
			10					YELLOW WITH BROWN LAYER @ 11.5'-11.75'
			6					THEN WEATHERED GRAY SHALE, DRY
	j.		7	1.5'	0.0			-
12	- 1						12	
	8	n 11	3			10:35		12.0' RED BROWN CLAY, DAMP,
			12					SHALE FRAGMENTS
	9		19					13.2' MEDIUM YELLOW BROWN CLAY,
			8	1.2'	0.0			DAMP, YELLOW BROWN SANDY SHALE
14	4						14	FRAGMENTS
			10			10:45	70	
			16					15.0' DARK GRAY SANDY SHALE
		-	10			.8		FRAGMENTS, DRY
ř.			7	1.4'	0.0			15.8 DARK YELLOW BROWN SHALE, DRY
16					2		16	WEATHERED/FRACTURED
			5			10:55		16.0' MEDIUM YELLOW BROWN CLAY, DAMP
			3					W/SANDY SHALE FRAGMENTS
			5					17.1'-17.2' MOIST
			19	1.7'	0.0		4-	17.7' BECOMES DARK RED BROWN, DAMP
18	a.						18	
			10			11:05		
			8					18.5' MOIST ABOVE DARK YELLOW
		-	10					BROWN SANDY SHALE, FRAGMENTED
	1 =		18	1.6'	0.0			18.6' DARK RED BROWN CLAY, DAMP
20							20	LITTLE SHALE FRAGMENTS



BORING IDSB-20PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	H (ft bgs)	39	DATE	12/8/2014	
DRILLER(s)		WATER LEVEL	36	ft bgs	SAMPLE TIME _	9:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD,	CALM WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30'	s	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
	c	2	9			11:10	_	20.0 DARK RED CLAY, DAMP
			9					
			7					21.0' MEDIUM YELLOW BROWN SANDY
			42	0.9'	0.0			SHALE, FRACTURED, DAMP
22						on companyon	22	*
			4			11:20		22.0' DARK RED BROWN CLAY, DAMP
			7					
_	-		9					23.2' SOME ROOT STRUCTURE, DAMP
			11	1.8'	0.0			23.25' YELLOW BROWN CLAY W/SHALE
24							24	FRAGMENTS, DAMP
			4			11:40		24.0 RED BROWN CLAY, DAMP W/SOME
			48					YELLOW BROWN SILTY CLAY
			42					24.5' LIGHT YELLOW BROWN SHALE,
			12	1.2'	0.1			FRACTURED/WEATHERED, DRY
26							26	
	2 2		4			11:50		26.0' RED BROWN CLAY, DAMP
	- W		6					SHALE FRAGMENTS
	•		7					27.0'-27.4' YELLOW BROWN CLAY
			7	1.6'	0.1			W/SHALE FRAGMENTS, DAMP
28							28	27.4' RED BROWN CLAY, DAMP
0			30			12:00		0
	2		18					28.8' RED SHALE FRAGMENTS, DRY
_	11		12	00 0000				29.0' MEDIUM YELLOW BROWN SANDY
			11	1.2'	0.0			SHALE, DAMP, FRACTURED
30							30	
0					0			*



BORING ID SB-20
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

0000	W. Committee of the com						
GEOLOGIST	СМН	BORING DEPT	ΓH (ft bgs)	39	DATE	12/8/2014	
DRILLER(s)		WATER LEVE	L 36	ft bgs	SAMPLE TIME	9:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD, CA	ALM WINDS	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.		

epth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
30		(A)					30	
			4			12:10		30.0 DARK RED BROWN CLAY, DAMP
		40	6	7=				31.0' DARK YELLOW BROWN SANDY SHALE
			10					FRAGMENTS
			14	1.0'	0.1			31.5' DARK RED BROWN CLAY, DAMP
32							32	W/LITTLE GRAY
			27 37			12:25		32.5' DARK RED SHALE, DRY, FRACTURED
	-		50/3"	1.2'	0.2		_	33.0' MEDIUM OLIVE BROWN SHALE, DRY,
								FRACTURED
34	_						34	
			6	y.		12:35		
			13					35.6' BECOMES DARK RED SHALE, DRY,
v %			25		0			FRACTURED
		= =	25	1.8'	0.1			
36							36	
			14			12:50		36.0' GRAY BROWN SILT W/SHALE
	ă = T		23					FRAGMENTS, SATURATED
(4)	=		50/5"	1.2'	0.0			36.4' DARK RED BROWN SHALE
15	- 1, 1	85						FRACTURES, DAMP, GRAY &
38							38	YELLOW BROWN SHALE FRAGMENTS
			-				_	-
	_	8						AUGERED TO 39.0'
	0							
40							40	



PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

						- Contract of the Contract of	
GEOLOGIST	CMH/TC	BORING DEP	TH (ft bgs)	33	DATE	12/8/2014	
DRILLER(s)		WATER LEVE	EL30	ft bgs	SAMPLE TIME _	15:24	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD, CAL	M WINDS	SAMPLE DEPTH	*	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.	8.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	0.0 ROAD MATERIALS-GRAY GRAVEL &
			11			15:24		SAND, MOIST
	eo a		12					0.2' MEDIUM YELLOW BROWN SILTY CLAY
	- 1		8					DAMP, LITTLE SAND & SHALE FRAGMENTS
			7	1.6'	0.3			
2							2	U 0
1			4			15:35		2.0' DARK YELLOW BROWN CLAY W/LITTLE
			5					FRAGMENTS, DAMP
			6					
			6	1.0'	0.2			
4					59		4	
			7			15:50		4.0' DARK RED BROWN SHALE,
		Α. 11	8					FRACTURED, DRY
			9					5.0' DARK GRAY SHALE-FRAGMENTS, DRY
			18	1.1'	0.7			5.1' MEDIUM YELLOW BROWN SHALE, DRY,
6							6	FRACTURED
			7			16:05		6.0' OLIVE BROWN SILTY CLAY W/SHALE
			8					FRAGMENTS, DAMP
			8					
			6	1.1'	0.4			7.5' LITTLE SHALE FRAGMENTS
8							8	
			5			16:10		8.0 GRAY YELLOW SILTY CLAY
			6					WITH SHALE, GRAVEL, DRY
			13					
		2	8	1.5'	0.4			9
10							10	
in the same								

ELEV: 1295.59

LAT: 39°41'53.38" N

LON: 80°53'56.78" W



BORING ID SB-21

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

						-		
GEOLOGIST	СМН	BORING DEP	TH (ft bgs)		33	DATE	12/8/2014	
DRILLER(s)	9	WATER LEVE	EL	30	ft bgs	SAMPLE TIME	15:24	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COI	LD, CALI	M WINDS	SAMPLE DEPTH	9	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.	£ .	,

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			4			16:15		10.0 GRAY YELLOW SILTY CLAY
			5					WITH SHALE GRAVEL,
	l		6	-				DRY
			7	1.6'	0.9			
12							12	
2 72 2 72			4			16:25		12.0 GRAY YELLOW SILTY CLAY
	1		7					WITH SHALE GRAVEL, DRY
			6					13.5'-14.0' YELLOW BROWN SILTY
			8	1.6'	0.6			CLAY & SHALE GRAVEL, DRY
14							14	
			4			16:30		14.0 YELLOW BROWN SILTY CLAY &
			2					SHALE GRAVEL, DAMP
			6					15.0'-15.2' DRY
			18	1.4'	0.8			
16		V					16	*
	-		4	7.5		16:40	410-11-	16.0'-16.5' YELLOW-GRAY SILTY CLAY &
			6					SHALE GRAVEL, DAMP
			7			ľ		16.5'-16.75' GRAY SHALE GRAVEL, DRY
	99		9	1.7'	0.1			16.75'-18.0' GRAY SILTY CLAY & SHALE
18				Δ			18	GRAVEL, DAMP
			4			16:45		18.0 BROWN RED SILTY CLAY&SHALE GRAVEL
	_		8					DRY
			8					
			11	1.7'	0.4			19.75'-20.0' GRAY WEATHERED
20							20	SHALE, DRY
								ш п



BORING IDSB-21PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

						N		
GEOLOGIST	СМН	BORING DEP	TH (ft bgs)		33	DATE	12/8/2014	
DRILLER(s)		WATER LEVE	L	30	ft bgs	SAMPLE TIME _	15:24	Ē.
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COL	D, CALI	M WINDS	SAMPLE DEPTH	ē-	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's	3	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
			4			16:55		20.0'-21.0' BROWN RED SILTY CLAY
			8					& SHALE GRAVEL, DAMP
	1		10	*	1			21.0'-22.0' GRAY WEATHERED SHALE, DRY
			14	1.5'	0.0	2		
22							22	
			6			17:05		22.0 GRAY YELLOW SILTY CLAY W/SHALE
			17					GRAVEL
	į.		9					23.0'-23.5' BROWN SANDSTONE, DRY
			9	1.5'	0.1	1		
24							24	
			7	2		17:10		24.0 BROWN TO YELLOW GRAY SILT
			10			-		CLAY & SHALE GRAVEL, DAMP
			7	(4)				
			10	2.0'	0.2			
26	-						26	1
			6			17:20		26.0 BROWN-YELLOW SILTY CLAY
			7					& SHALE GRAVEL, DRY
	,		7					
	-		8	1.6'	0.2			
			1				28	
			5			12/9/2014		
—			6			7:40		
			21					
			27	1.7'	0.1			29.7' MEDIUM BROWN SANDY SHALE,
30				0000000	5000 FO		30	FRACTURED, SATURATED



BORING ID SB-21

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

							- 10	
GEOLOGIST	СМН/ТС	BORING DEF	TH (ft bgs)	y-	33	DATE	12/9/2014	
DRILLER(s)		WATER LEVE	EL	30	ft bgs	SAMPLE TIME _	7:30	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., CO	LD, CALI	/ WINDS	SAMPLE DEPTH	8	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP		30's	lle"	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
30		14	4 7 9 10	1.0'		7:50	30	SANDY CLAY, SATURATED 31.0' MEDIUM YELLOW BROWN SANDY CLAY W/SHALE FRAGMENTS, DAMP
32			10	=			32	AUGERING TO 33' TO SET WELL
34		pr. 5					34	
36						*	36	
40				ē.		·	38	



BORING IDSB-22PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	TC	BORING DEP	ΓH (ft bgs)	33.75	DATE	12/9/2014	
DRILLER(s)		WATER LEVE	LNA	ft bgs	SAMPLE TIME _	7:30	U
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD, CA	LM WINDS	SAMPLE DEPTH	1	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
	=		21			9:40		0.0 BROWN SILTY CLAY AND
	- 0		11					MOSTLY GRAY GRAVEL, DRY
			10					
			14	0.7'	0.2			8
2							2	
			10			10:25		2.0 BROWN SILTY CLAY & SHALE
			4					GRAVEL WITH WEATHERED GRAY SHALE,
			8	1				DRY
	=		9	1.2'	0.2			
4							4	
			4			10:35		182
			8					NO RETURN
	0 0		13					
			8	NR	NA	8		
6							6	
			7			10:45		6.0 YELLOW GRAY SILTY CLAY
			10					AND SHALE GRAVEL, DRY
			12					
			9	1.4	0.4			8
8							8	
			6			10:50		
			11					8.0 YELLOW GRAY SILTY CLAY
			6					AND SHALE GRAVEL, DRY
			22	1.7	0.4	44		
10							10	

ELEV: 1295.76

LAT: 39°41'52.88" N

LON: 80°53'57.04" W



BORING ID SB-22

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

~					0.112		TIVITATION CE, C	
GEOLOGIST	тс	BORING DEF	PTH (ft bgs	s)	33.75	DATE	12/9/2014	
DRILLER(s)		WATER LEV	EL	NA	ft bgs	SAMPLE TIME _	7:30	1
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER .	O.C., C	OLD, CALM	WINDS	SAMPLE DEPTH	V =	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP		30's		SAMPLE DESC.	1 9	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	H	Lithologic Description
10							10	
			4			11:00		10.0 DARK RED BROWN CLAY, DAMP
		==	7					10.5' MEDIUM YELLOW BROWN SILTY
			4		83			CLAY W/FRACTURED SHALE FRAGMENTS,
	=		5	1.4'	0.4			DAMP
12							12	
			7			11:05		12.0 YELLOW GRAY SILTY CLAY
			4				24.	W/SHALE GRAVEL, DRY
			4	2				
			6	1.3'	0.3			
14							14	
			9	±		11:15		14.0 YELLOW GRAY SILTY CLAY
	_ 2		7				_	W/SHALE GRAVEL, DRY
			7					
		51	6	1.2'	0.1			
16							16	
			4			11:25		16.0 YELLOW GRAY SILTY CLAY
			13	_		An incommunity		W/SHALE GRAVEL, DRY
			14				10	17.5'-17.75' BROWN RED SILTY CLAY
7			26	1.6'	0.3			W/SHALE GRAVEL, DRY
18							18	
			9			11:30		18.0'-19.0' YELLOW GRAY SILTY CLAY
	2		9			2	_	& SHALE GRAVEL, DRY
			9				-	
	_		10	1.5'	0.0		_	19.0'-20.0' RED BROWN SILTY CLAY
20			.,				20	& SHALE GRAVEL, DAMP



BORING ID SB-22
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

								*//
GEOLOGIST	тс	BORING DEF	PTH (ft bgs)		33.75	DATE	12/9/2014	
DRILLER(s)	M1	WATER LEV	EL	NA	ft bgs	SAMPLE TIME _	7:30	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER .	O.C., CO	LD, CAL	M WINDS	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
			7			11:35		20.0 YELLOW GRAY SILTY CLAY & SHALE
	9 0		8		10	9.		GRAVEL
			9					21.0'-21.5' GRAY SILT AND SHALE GRAVEL
	Ø.		9	1.2'	0.1			21.0'-22.0' BROWN RED SILTY CLAY
22							22	SHALE GRAVEL
			6			11:40		
			8					22.0 YELLOW GRAY TO SLIGHTLY BROWN
			8					SILTY CLAY & SHALE GRAVEL, DAMP
			9	1.75'	0.0			
24							24	· · · · · · · · · · · · · · · · · · ·
			7			11:50		
			7					24.0 YELLOW GRAY & RED BROWN
			7	1			-	SILTY CLAY & SHALE GRAVEL,
			7	1.15'	0.0			DAMP
26							26	
			10			12:40		W
			12					BROWN RED TO TURNING YELLOW GRAY
			15					SILTY CLAY & SHALE GRAVEL-DRY
		ŭ.	14	1.85'	0.0			
28						2	28	
			13			12:45		
			22					28.0 BROWN RED TO TURNING YELLOW GRAY
			23					SILTY CLAY & SHALE GRAVEL, DRY
			36	1.3'	0.0			
30	(20)		I Jedsala				30	
				-1			000	8



BORING ID SB-22

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

						2 	***	
GEOLOGIST	тс	BORING DEP	TH (ft bgs)		33.75	DATE	12/9/2014	
DRILLER(s)	= %	WATER LEVE	L	NA	ft bgs	SAMPLE TIME	7:30	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., CO	LD, CAL	M WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.	4	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
30	- T E						30	
			16			13:00		30.0 BROWN RED SILTY CLAY
			25					W/LITTLE YELLOW GRAY SILTY CLAY
			20	35				W/SHALE GRAVEL
			21	1.65'	0.0			SOFT DAMP AREA BETWEEN 31.5'-31.75'
32							32	
			11			13:15		
		1,	12	_				32.0 YELLOW GRAY SILTY CLAY &
			18					WEATHERED SHALE, DRY
			50/3"	1.2'	0.0			AUGER REFUSAL & SPOON REFUSAL
34							34	@ 33.75'
			1 111		-			14
×								
		e						
36							36	
	2.2							
				//				/
-								
38							38	
		-						
			rë				-	
40							40	
								-



BORING ID SB-23

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEP	TH (ft bgs)		37	DATE	12/9/2014	
DRILLER(s)	0	WATER LEVE	EL	NA	ft bgs	SAMPLE TIME _	14:35	4
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., CO	LD, CALM	WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30's		SAMPLE DESC.	1	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	ROAD SURFACE - LIGHT GRAY GRAVEL
) -		3			14:35		AND SAND, DAMP
			6					0.2' DARK YELLOW BROWN SILTY CLAY,
			6					DAMP, SHALE FRAGMENTS
N .			6	0.9'	0.0	20		
							2	
	=		4			14:45		2.0 DARK YELLOW BROWN SILTY CLAY
			5	1				DAMP, SHALE FRAGMENTS
			7		a.			
	3		9	0.9'	0.0	11 vá		
—	-						4	
			6			14:50		4.0 MEDIUM OLIVE BROWN SILTY CLAY,
			8					W/SHALE FRAGMENTS, DAMP
			6					
			7	1.5'	0.0			8
 6							6	
			7			15:00	4//	6.0 MEDIUM OLIVE BROWN SILTY CLAY,
*			9					W/SHALE FRAGMENTS, DAMP
-			15					
			15	1.4'	0.0			
 8							8	
			4			15:05		8.0 MEDIUM OLIVE BROWN SILTY CLAY,
			16					W/SHALE FRAGMENTS, DAMP
			20					
			16	1.3'	0.0			#
10							10	
-								

ELEV: 1295.35

LAT: 39°41'52.24" N

LON: 80°53'57.39" W



BORING IDSB-23PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPT	H (ft bgs)	37	DATE	12/9/2014	
DRILLER(s)	Ann. 9.1 1190a	WATER LEVEL	NA	ft bgs	SAMPLE TIME _	14:35	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	O.C., COLD, CALM	WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30's		SAMPLE DESC.		-1

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	2	Lithologic Description
10			Oha I				10	
			43			15:20		10.0 MEDIUM OLIVE BROWN SILTY CLAY,
	8		15					DAMP, W/SHALE FRAGMENTS
			10			K		
			22	0.9'	0.0			
12			`		81		12	
	_		14			15:30		12.0 FRACTURED SANDY SHALE, DRY
			36					W/SAND AND SILT
	20		23					12.6' DARK BROWN SILT, DAMP
			10	1.4'	0.0		1	W/CLAY-MOTTLING & IRON STAINING
14						2	14	
			12			15:40		NO RETURN
			6	a.e.		§ c		
			5		-	_		
			7	NR				
16							16	
	= " =		5			15:50		16.0' FRACTURED DARK OLIVE
			8					BROWN SHALE, DRY
			10					16.5' MEDIUM YELLOW BROWN SILTY CLAY,
			9	1.0'	0.0			DAMP, SHALE FRAGMENTS
18				5-		91	18	
		100	5			12/10/2014		
			11			13:15		19.3'-19.5' WET, SOFT
			17) 	19.5 DARK OLIVE BROWN CLAY,
			50/5"	1.7'	0.3			DAMP, SHALE FRAGMENTS
20							20	



PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)	37	DATE	12/10/2014
DRILLER(s)	3	WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	12/9/2014 14:35
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SI	NOW	SAMPLE DEPTH	ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	BECOMES REDDISH BROWN, DRY
		1);	5			13:25		
			8					21.1' DARK YELLOW BROWN CLAY, DAMP
			20	0.554				W/SHALE FRAGMENTS
			11	1.6'	0.1			
22							22	
			8			13:35		<u> </u>
	2		6					23.2' BECOMES DARK REDDISH BROWN
			- 5					CLAY, DAMP, FEW SHALE FRAGMENTS
			9	1.7'	0.0			* 1
24							24	
			7			13:45		
			8					25.0' DARK RED (PURPLE) CLAY W/GRAY
			14					MOTTLING, DRY
			15	1.3'	0.0			25.3' W/MEDIUM YELLOW SHALE FRAGM'TS
26	1						26	26.0' DARK RED CLAY, DRY
			5			13:55		
	,		8					
			10					27.0' MEDIUM YELLOW SHALE
			11	1.7'	0.0			FRAGMENTS, DRY
28	,						28	28.0' DARK RED CLAY, DAMP
			4			14:05		
			5					*
			7					
	0		13	1.8'	0.0			
30							30	,



BORING IDSB-23PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)	37	DATE	12/10/2014
DRILLER(s)	7	WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	12/9/2014 14:35
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SI	WOW	SAMPLE DEPTH	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
30							30	
			4			14:10	1700	30.0 DARK RED CLAY, DAMP
			5					
			6					31.8' DARK YELLOW BROWN CLAY, DAMP
			8	0.6'	0.0		y	W/SHALE FRAGMENTS
32							32	
			0			14:20		32.0 DARK YELLOW BROWN CLAY, DAMP
			3					W/SHALE FRAGMENTS
			5				8	
			9	1.7'	0.0			
34							34	
			7			14:30		34.0 GRAY BROWN CLAY-DAMP
Daniel III			9				×	35.0' DARK RED BROWN SHALE
			16					FRACTURED, DAMP
			22	1.7'	0.0			35.5' OLIVE BROWN SHALE, DRY,
36							36	FRACTURED
			10			14:50		
		-	18					
			50/1"	0.9'	0.0			REFUSAL @ 37.1'
38							38	
	, i		-					
					5			
40							40	



BORING ID

SB-24

PROJECT NUMBER

PROJECT NAME

EISENBARTH

SITE LOCATION

HANNIBAL, OH

					-		
GEOLOGIST	тс	BORING DEPTH	(ft bgs)	25	DATE	12/9/2014	
DRILLER(s)		WATER LEVEL _	NA	_ft bgs	SAMPLE TIME _	15:35	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., CALM WINDS	S	SAMPLE DEPTH	7	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	7	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0						**	0	
			5			15:35		0.0 GRAY GRAVEL WITH LITTLE
			7					BROWN SILTY CLAY & SHALE
			10					GRAVEL, DRY
			6	0.8'	1.1		27	
2							2	7
			5					
20 40 20 40			7					NO RETURN
			8					n
			9	NR				
4							4	
	e e		8			16:15		4.0 YELLOW GRAY SILTY CLAY
	2 1		10					W/SHALE GRAVEL, DRY
			7	82				
			6	1.7'	1.2			
6							6	
			5			16:25		6.0 YELLOW GRAY W/LITTLE
			7					RED BROWN SILTY CLAY,
			6	40 15				SHALE GRAVEL, DRY
			6	1.4'	2.1			
8							8	N
			10	-6:		17:00		8.0 GRAY SILTY CLAY W/SHALE
			25	1 7 2				GRAVEL & WEATHERED SHALE, DRY
_			8		1			8
			7	1.2'	3.1			
10							10	

ELEV: 1296.27

LAT: 39°41'51.55" N

LON: 80°53'57.67" W



BORING ID SB-24

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	тс	BORING DEPTH	(ft bgs)	25	DATE	12/10/2014	
DRILLER(s)		WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	8:10	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT S	NOW	SAMPLE DEPTH	E. v	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10						New Common	10	
_			5			8:25		10.0 GRAY YELLOW SILTY CLAY & SHALE
	-	-	5				_	GRAVEL, DRY
	¥	-	10	1024 98500			_	
			4	0.9'	1.6	35	_	
12						885	12	
			4			8:35		12.0 YELLOW GRAY SILTY CLAY
		_	5					SHALE GRAVEL
		Į,	6	Will Research	1			
			6	1.7'	1.9			
14	-		Statistics was				14	
_			9			8:40	-	14.0 YELLOW GRAY SILTY CLAY
			10					W/SHALE GRAVEL, DRY
			6				-	
	_		12	1.5'	1.1			
16	1 5					2 -2	16	(0.0.)(5) 0.0.(.0.0.)(1.0.(.0.0.)(1.0.(.0.0.)(1.0.(.0.0.)(1.0.0.)(1.0.(.0.0.)(1.0.0.)(1.0.0.)(1.0.0.)(1.0.0.)(1.0.0.0.)
	9		6			8:50	-	16.0 YELLOW GRAY WITH LITTLE
			5			II.		RED BROWN SILTY CLAY &
		==	6					SHALE GRAVEL, DAMP
	_		9	2.0'	2.8		_	
18							18	
_			7			9:00		40.0 VELLOW ODAY & DED DOCUM
_		_	5				-	18.0 YELLOW GRAY & RED BROWN
			12				_	SILTY CLAY, SHALE GRAVEL, DAMP
	_	_	13	2.0'	2.4			
20							20	



BORING ID SB-24

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST .	тс	BORING DEPTH	(ft bgs)	25	DATE	12/10/2014	
DRILLER(s)	,	WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	8:10	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SI	WOW	SAMPLE DEPTH	8 8	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
			4			9:10		20.0 YELLOW GRAY & RED BROWN
			4					SILTY CLAY W/GRAY AND RED
			22					SHALE GRAVEL, DAMP
			17	1.7'	2.3			2
22							22	22.0'-22.5' YELLOW GRAY SILTY CLAY,
			12			9:30	Section 2	LITTLE SHALE GRAVEL
			22					22.5'-23.5' RED BROWN SILTY CLAY
			30					W/LITTLE SHALE GRAVEL
	牒		41	1.7'	8.0			23.5' YELLOW GRAY SILTY CLAY GRAVEL
24							24	24.0' BROWN SILTY CLAY LITTLE DARK
			5			9:55		BROWN SILTY CLAY & LITTLE GRAVEL
	W .	-	20					GRAY YELLOW SILTY CLAY
			35	1.0'			3	25.0' WEATHERED SHALE
			50/5"		0.9			
26							26	AUGER REFUSAL @ 25.0'
	i							*
	"						28	-
								9
								P 4
					2	38		
30					- 33		30	2
								2.0



BORING ID SB-25

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH	(ft bgs)		23	DATE	12/10/2014	
DRILLER(s)		WATER LEVEL _		20	ft bgs	SAMPLE TIME _	11:00	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C.,	LIGHT S	NOW	SAMPLE DEPTH	y	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP		30's		SAMPLE DESC.	7	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			6			11:00		0.0 GRAY GRAVEL & BROWN SILTY
			8					CLAY, DRY TO DAMP
			8					1
			8	0.5'	0.5			7
2							2	
	511	1.0	3			11:40		2.0 BROWN SILTY CLAY & LARGE
			5					RED SHALE GRAVEL, DRY
			5					
1			6	1.2'	1.0			
4							4	
			3			11:45		4.0 GRAY BROWN & YELLOW SILTY
			5			F1		CLAY WITH SHALE GRAVEL, DRY
			12					
			7	1.5'	1.1			
<u> </u>							6	
			20			12:00		
			30					6.0 YELLOW GRAY SILTY CLAY
			19			ttr		& SHALE GRAVEL, DRY
			17	1.25'	1.4			
8							8	
			3			12:05		
			5	e				8.0 YELLOW GRAY SILTY CLAY
5 - 17 15 - 53		3	7			v.		& SHALE GRAVEL, DRY
			9	1.7'	1.1			
10							10	

ELEV: 1296.10

LAT: 39°41'51.91" N

LON: 80°53'57.51" W



BORING ID SB-25

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

23 DATE 12/10/2014

GEOLOGIST	TC	BORING DEPTH ((ft bgs)	23	DATE	12/10/2014	
DRILLER(s)		WATER LEVEL _	20	ft bgs	SAMPLE TIME _	11:00	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SN	IOW	SAMPLE DEPTH		ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's	=	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			4			12:15		10.0 YELLOW GRAY W/LITTLE RED BROWN
			4					SILTY CLAY W/SOME GRAY SHALE
			21					
			9	1.4'	1.6			
12	20						12	
			9			12:30		12.0 YELLOW GRAY W/LITTLE RED BROWN
			2					SILTY CLAY & GRAY SHALE GRAVEL
			13	1				
	7%		46	1.5'	1.6			
14	*						14	
			50/2"	0.2'	1.5	12:40		14.0 BROWN GRAY SILTY CLAY
		_				20		
		2			10			9
16							16	
			4			12:55		16.0 YELLOW BROWN SILTY CLAY W/LITTLE
			4					GRAY SHALE GRAVEL, DAMP
			6					
			7	0.7'	1.5		72	
18							18	
			9	× 1		13:05		18.0 BROWN TO RED BROWN
			13					SILTY CLAY W/LITTLE SHALE GRAVEL
	#		17	20.00				DAMP TO WET
			50	1.7'	1.0		1	
20						200	20	11



BORING IDSB-25PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -							
GEOLOGIST	тс у	BORING DEPTH	(ft bgs)	23	DATE	12/10/2014	
DRILLER(s)		WATER LEVEL	20	ft bgs	SAMPLE TIME _	11:00	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SI	WOV	SAMPLE DEPTH	10-	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	··	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	6 E	Lithologic Description
20			10 20 50/5"	NR	NA	13:15	20	NO RETURN, SPOON WAS WET
22			00/0				22	
24	-		-	=			24	
						10		
26	= = = = = = = = = = = = = = = = = = = =						26	
28			=		13		28	
30		-	,				30	



BORING ID

SB-26

PROJECT NUMBER

PROJECT NAME

EISENBARTH

SITE LOCATION

HANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH	(ft bgs)		8 [DATE	12/10/2014	
DRILLER(s)		WATER LEVEL _	NA	ft bg	gs S	SAMPLE TIME _	14:50	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGH	HT SNOW	:	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		_	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	Y	Lithologic Description
0			10				0	
			12			15:05		0.0'-1.5' GRAY SILTY GRAVEL, DRY
			14					1.5'-2.0' YELLOW SILTY CLAY, DRY
			19					
			20	1.7'	0.4			
2							2	4-2-
			15		1.	15:15		2.0 YELLOW SILTY CLAY-DRY
			50/3"	0.5'	0.6	12.		SPOON REFUSAL @ 2.75'
	ř.							
4							4	
			40			15:35		4.0'-5.0' YELLOW BROWN SILTY CLAY
- A	şî.		45					W/LITTLE GRAVEL SHALE, DRY
		75:	20					
			50/5"	1.8'	0.6		,	5.0'-6.0' YELLOW SILTY CLAY TO
6						-57	6	WEATHERED SHALE, DRY
			50			15:40		
			50/5"	1.0'	11.7			GRAY SILTY WEATHERED SHALE
			22					SPOON REFUSAL @ 7.0'
								AUGER REFUSAL @ 8.0'
8							- 8	
								4
	1.							
10	-						10	S
			11					2

ELEV: 1296.67

LAT: 39°41'51.60" N

LON: 80°53'56.60" W



BORING ID SB-27

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)	23	DATE	12/10/2014
DRILLER(s)		WATER LEVEL _	18	ft bgs	SAMPLE TIME _	16:00
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SI	WOV	SAMPLE DEPTH	ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	-	Lithologic Description
0							0	0.0 ROAD BASE-LIGHT GRAY GRAVEL & SAND,
			5			16:00		MOIST
			7					1.0' MEDIUM YELLOW BROWN SILTY CLAY,
	7 4		9				V-	MOIST
			18	0.7'	0.7			
2	_			70			2	
			7			16:05	39	2.0 REDDISH BROWN CLAY, DAMP
			6					W/YELLOW BROWN SHALE FRAGMENTS
			9					-
			8	1.3'	0.3			
4							4	
			16			16:25		4.0 SANDSTONE GRAVEL IN SHOE
			10					BROWN GRAY, DRY
			5					
_			12	NR				
6							6	1
			6	- 2		16:35		6.0 GRAY BROWN CLAY, DAMP/MOIST
_			5				8	W/GRAY BROWN SHALE FRAGMENTS
			2	11 0466	THE WORLD			
			11	1.3'	0.0			
8							8	
		A-	5			16:40	7	8.0 BECOMES BROWN-DAMP
-			10					
_			16				13	9.5' YELLOW BROWN SANDY SHALE-DRY
			33	1.8'	0.1			FRACTURED
10							10	

ELEV: 1297.07

LAT: 39°41'51.17" N

LON: 80°53'57.65" W



PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)	23	DATE	12/10/2014	
DRILLER(s)	2	WATER LEVEL _	18	ft bgs	SAMPLE TIME _	16:00	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	O.C., LIGHT SN	OW	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	9	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	1
			11			16:50		10.0 DARK YELLOW BROWN SANDY CLAY, DRY
			32					1.1' YELLOW BROWN SHALE, DRY
			16					WEATHERED-FRACTURED
			18	1.5'	0.0			
12	23						12	* "
			25			17:00		12.0 YELLOW BROWN SHALE, DRY,
			31					WEATHERED-FRACTURED
-			37					13.5' W/LITTLE DARK RED MOTTLING
			45	1.5'	0.0			1
14		(14	8
	= ==		18			17:10		14.0' NO RED MOTTLING
_			13					
_	8		22					
_			18	1.7'	0.0		_	
- 16					-		16	
		***************************************	16			12/11/2014		16.0 YELLOW BROWN SHALE, DRY,
_			20			8:05		WEATHERED-FRACTURED
_			26					
-			21	1.8'	0.0			17.8' TRACE GRAY MOTTLED CLAY,
–			10000000	*********	05000		18	FRACTURED
			5			8:15		18.0' YELLOW BROWN SANDY/GRAVELY CLAY
			20				-	SATURATED
			26			-	_	18.5' YELLOW BROWN SHALE, DAMP
_			28	1.8'	0.0		-	The state of the s
— 20			20				20	ADVANCED TO 23'
— ²		9						SETTING WELL AT 25'



BORING IDSB-28PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH	(ft bgs)	16.75	DATE	12/11/2014	
DRILLER(s)		WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	9:10	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLOU	JDY	SAMPLE DEPTH	4 111	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0						/	0	
_			17			9:15	_	0.0 GRAY GRAVEL SILTY CLAY, DRY
			32				_	
			30 8	1.0'	1.1		_	
	-		0	1.0	1,1			
			20			9:20		2.0'-3.0' GRAY GRAVEL & SILTY CLAY, DRY
			15				_	
			10				_	3.0'-4.0' RED BROWN SILTY CLAY
	12		18	1.0'	1.1			
4							4	
			10			9:40		
_			11				_	4.0 YELLOW SILTY CLAY W/LITTLE
_	_		14	1.7'	1.1		-	SHALE GRAVEL
— 6			25	1.7	1.1			
°			5			10:00	-	6.0'-7.5' YELLOW SILTY CLAY
			12			10 mm		& SHALE GRAVEL
	6	-	17					7.5'-8.0' BROWN SANDY CLAY
			50	1.75'	1.3			& BROWN SANDSTONE GRAVEL
8	-				1		8	
_			17			10:10	_	8.0 YELLOW SILTY CLAY & LITTLE SHALE
			38	=			_	GRAVEL
_	e e		49 41	1.6'	1.2		-	9.0'-9.5' BROWN SANDSTONE, DRY
<u> </u>				1.0	1.2	Œ.	10	
							10	

ELEV: 1296.88

LAT: 39°41'50.90" N

LON: 80°53'57.22" W



BORING IDSB-28PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH ((ft bgs)	16.75	DATE	12/11/2014	
DRILLER(s)		WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	9:10	29
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLOU	JDY	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	Y.
	55		12			10:15		10.0 YELLOW SILTY CLAY & SHALE
			38					GRAVEL (LITTLE GRAVEL)
			40					10.75'-11.0' SOFT CLAY
			48	2.0'	1.4			
12							12	
			32			10:40		12.0 YELLOW SILTY CLAY WITH
			50/3"	1.0'	0.5			SOME SHALE GRAVEL, DRY
								SPOON REFUSAL @ 12.75'
								1
14							14	
			30			10:50		14.0 RED-BROWN TO TURNING
	= '		50/3"	1.0'	0.5			RED YELLOW SILTY CLAY
	1							& RED SHALE GRAVEL, DRY
								SPOON REFUSAL @ 14.75'
16							16	
			46			11:10		16.0 YELLOW WEATHERED SHALE
			50/3"	1.0'	0.6			SPOON REFUSAL @ 16.75'
)			,				IRON STAINING IN ROCK, DRY
		2						
18	N.						18	
						1		TERMINATE BORING @ 16.75'
								2
								*
							-	1
20				86			20	
						1	2000	H



BORING IDSB-29PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)	29	DATE	12/11/2014	1
DRILLER(s)		WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	10:20	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLOU	JDY	SAMPLE DEPTH		ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	i i	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	41	Lithologic Description
0							0	PAD MATERIAL-SAND & GRAVEL
			23			10:25		GRAY, DAMP, LOOSE
			36					
	34		28	100.000				
L .	,		11	1.2'	0.4			
<u> </u>	ý		5			10:35	2	NO RETURN-SPOON EXTERIOR WET
			6					
		Ψ	5					
L ,			4	NR				
- 4			2			10:45	4	
_	5.		3			10.10		NO RETURN
			2				_	
			3	NR				
6							6	
	-		3			10:55		MEDIUM YELLOW BROWN CLAY, DAMP
			6					
_			6	2 4400			_	-
_			6	0.7'	0.0			7.8' WEATHERED SANDSTONE FRAGMENTS,
8			2		0 2	44.00	8	VERY SOFT, DAMP
<u> </u>	-		5		H	11:00	_	8.0 MEDIUM RED BROWN CLAY, SOFT, DAMP
	-		6				_	0.0 MEDIOWI RED BROWN CLAT, SOFT, DAMP
		4.	9	0.6'	0.0		_	
10				""			10	

ELEV: 1296.94

LAT: 39°41'50.38" N

LON: 80°53'55.98" W



BORING ID SB-29

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)		29	DATE	12/11/2014	
DRILLER(s)	978 - 55	WATER LEVEL _		NA	ft bgs	SAMPLE TIME _	10:20	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PAR	TLY CLO	UDY	SAMPLE DEPTH	16	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP		30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			4			11:05		10.0 MEDIUM RED BROWN CLAY, SOFT, DAMP
	1		4				Pile -	1
			5					
_	10	_	9	1.4'	0.0		-	1
12						44.46	12	40.0 DADY DED DDOWN OLAY DAMP
_			4			11:15		12.0 DARK RED BROWN CLAY, DAMP
	-	11	5 7					
_			8	0.5'	0.0		-	13.9' STICK OF WOOD-POSSIBLE
— 14			0	0.0	0.0		14	BROOM HANDLE
— "			4		,	11:25	14	14.0 DARK RED BROWN CLAY, DAMP
			4) 1 1 1 1	like-	W/LITTLE SHALE FRAGMENTS
			6				-	1
			7	0.5'	0.0			V
16							16	
	a		4			11:35		16.0 DARK RED BROWN CLAY, DAMP
		17	6					W/LITTLE SHALE FRAGMENTS
			3		12			16.5' YELLOW BROWN SANDY CLAY
			9	1.3'	0.0			17.0' DARK RED BROWN CLAY, DAMP
18	a					700 000	18	
⊢ ∣			4			11:45	-	18.0 DARK RED BROWN CLAY, DAMP
\vdash			4				-	2
_			7 9	1.5'	0.0		-	19.0' LITTLE SHALE
F		100	9	1.5	0.0			19.0 LITTLE SHALE
²⁰							20	
20							20	



BORING IDSB-29PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH	(ft bgs)	29	DATE	12/11/2014	
DRILLER(s)	2001	WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	10:20	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLO	UDY	SAMPLE DEPTH		ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	20	Lithologic Description
20							20	
	68:		5			12:15		20.0 DARK RED BROWN CLAY, DAMP
			4					W/LITTLE SHALE FRAGMENTS
			6					
		-	9	0.6'	0.0		27	
22							22	·
	1 10	1.1	6	Α		12:25		22.0 MEDIUM GRAY BROWN SILT W/SHALE
			8			P		FRAGMENTS, DRY
		_	5		4000000		-	
		-	10	0.6'	0.0		_	23.8' ORANGE GRAVEL FRAGMENTS
24	0						24	& STRAW PIECES
			27	=		12:35	8	
	Y 15		18				_	FRACTURED SHALE FRAGMENTS IN SHOE
	-		15			-		
	2	_	24	NR				
26							26	
		_	21			12:45	-	26.0 DARK GRAY CLAY/SHALE, DRY
			50/4"	0.7'	0			
			-				8	(
_	11.			-				-
28			44			40.55	28	20 A DADIC CDAY CANDCTONE HARD DDY
_	=		41	0.5'	0	12:55	-	28.0 DARK GRAY SANDSTONE, HARD, DRY
			50/3"	0.5'	"		-	REFUSAL @ 29.0'
							_	KEFUSAL @ 29.0
				-				1
30	-					-	30	
30		1.					30	



BORING ID SB-30

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH (ft l	ogs)	21	DATE	12/11/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME	11:46	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLO	JDY	SAMPLE DEPTH		ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's	:: 	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0		.09					0	
			30			12:00	D	PAD - WHITE GRAVEL & YELLOW SILTY CLAY
			12				Name of the last	WET
_			6				-	1
_	×		8	1.5'	0.2		D	
2	R		2			12:15	2	2.0 RED BROWN SILTY CLAY
_	<u></u>		3			12.15	-	& LITTLE GRAVEL, DAMP
			3 7				<u> </u>	& LITTLE GRAVEL, DAIVIP
-			7	1.2'	0.1			[
			150	1.2	0.1		4	E-grandering and a state of the
	2		3	3		12:20		4.0 RED BROWN & YELLOW
			5			,		SILTY CLAY WITH SOME
	40		6				b	RED SHALE GRAVEL, DAMP
			7	1.4'	0.9			
<u> </u>							6	
			2			12:30		6.0 RED-BROWN & YELLOW SILTY
			2	a .				CLAY W/RED & YELLOW SHALE GRAVEL
			2	120705630	W 1850			
_			2	1.9'	1.3		10	7.8'-8.0' GRAY SILTY CLAY W/ORGANICS
8						40.40	8	O O DED DECIMAL VELLOW & COAY
—			1			12:40	100	8.0 RED BROWN, YELLOW & GRAY
_			20					SILTY CLAY WITH SOME SHALE GRAVEL
_			18 7	1.1'	1.2		-	9.0'-9.5' GRAVEL LAYER SHALE
10			<i>y</i>	1. 1	1.2		10	- 3.0-3.3 GIVAVEE EXTERNISHEE
10	α						10	

ELEV: 1297.05

LAT: 39°41'50.61" N

LON: 80°53'56.84" W



BORING IDSB-30PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	тс	BORING DEPTH	(ft bgs)	21	DATE	12/11/2014	
DRILLER(s)		WATER LEVEL _	NA	ft bgs	SAMPLE TIME	11:46	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLO	JDY	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	W-	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			3			12:45		10.0'-10.75' RED BROWN GRAY & YELLOW
	91	-	6					SILTY CLAY & SHALE GRAVEL
	_		7					
			8	2.0'	3.2	19		10.75'-12.0' YELLOW SILTY CLAY
12							12	& SHALE GRAVEL-DRY
			30			13:05		12.0 YELLOW SILTY CLAY WITH
	121		50/3"	0.6'	1.7			LITTLE SHALE GRAVEL
_ =			2490 03					THEN HARD TO WEATHERED SHALE
	1							GRAVEL
14							14	
			8			13:15		14.0 YELLOW SILTY CLAY WITH
			30					TRACE OF SHALE GRAVEL, DRY
			35			1/2		
			40	2.0'	2.5			
16							16	
7 ***			22		1	13:30		16.0 YELLOW SILTY CLAY AND SHALE
95			50/4"	1.0'	3.1	7,000,000,000,000,000,000,000,000,000,0		GRAVEL
							_	
_							-	
18							18	A
Τ			40			13:55	200500	18.0 YELLOW SILTY CLAY AND SHALE
			48			1 terromandonia dos des como o constituido de constituid	-	GRAVEL, DRY
			34				(·
_			50	2.0'	2.0	1		
							20	
						1		



BORING ID SB-30

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH	(ft bgs)	21	DATE	12/11/2014	
DRILLER(s)		WATER LEVEL _	NA	ft bgs	SAMPLE TIME _	11:46	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLOU	JDY	SAMPLE DEPTH	5 	_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
			27			14:00		20.0'-21.0' YELLOW SILTY CLAY
			30					TO WEATHERED SHALE
	E .		35			- Tab		21.0'-21.75' RED BROWN WEATHERED
			50/4"	1.7'	2.6	-		SHALE
22							22	SPOON REFUSAL @ 21.75'
						av .		
_								
_	2						_	
_	-,							
24							24	()————————————————————————————————————
_							_	· .
_							_	
==			-					19-11
							200	s
	- 25						26	-
_				1.			-	1-1
_							-	v a silitanos s
_								
		9					28	-
						i de la companya de l	20	(
							_	
	8							
		_						
30							30	
								The state of the s



BORING ID SB-31

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	CMH/tc	BORING DEPTH	(ft bgs)	30	DATE	12/11/2014
DRILLER(s)	fi fi	WATER LEVEL _	20	ft bgs	SAMPLE TIME _	13:40
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	PARTLY CLO	JDY	SAMPLE DEPTH	ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30's		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	PAD-GRAVEL & SAND, GRAY, DAMP
			12 30 13			13:50		
2			7	1.1'	45.1	43		
			5 6 8			14:10	\(\frac{1}{2} \)	3.8' DARK GRAY, WET, PETROLEUM ODOR,
4			11	1.0'	135.0		4	
_			5 6 7			14:20	1	4.0 MEDIUM RED BROWN CLAY, DAMP W/LITTLE SHALE FRAGMENTS
_ 6		¥	12	0.5'	41.9		6	
			5 13			14:30	-	6.0 MEDIUM RED BROWN CLAY, DAMP W/LITTLE SHALE FRAGMENTS
		=	17 16	0.9'	28.5	al .		7.5' DARK ORANGE BROWN HIGHLY WEATHERED SANDSTONE,
⁸			3 7			14:40	8	SOFT, MOIST 8.0 DARK BROWN CLAY, DAMP
	111	=	13 16	0.9'	6.7		_	9.5' BECOMES WET, VERY SOFT 9.7' DAMP
10	=		10	0.9	0.7		10	3.1 DAWII

ELEV: 1296.62

LAT: 39°41'50.22" N

LON: 80°53'55.56" W



BORING ID SB-31

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	CMH/TC	BORING DEF	PTH (ft bgs)		30	DATE	12/12/2014
DRILLER(s)		WATER LEV	EL	20	ft bgs	SAMPLE TIME _	12/11/2014 13:40
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OVERCAS	ST, LIGH	T WINDS	SAMPLE DEPTH	ft bgs
METHOD _	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		20s		SAMPLE DESC.	- (Total (1997)

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
	20		4			12:00		10.0'-11.5' BROWN RED SILTY CLAY
			6				******	WITH TRACE OF SHALE GRAVEL
			9					
			9	1.0'	3.4			11.5'-12.0' YELLOW SILTY CLAY W/SHALE
12							12	GRAVEL
	:=		4			12:50		12.0 WET RED BROWN CLAY TO TURNING
		0	6					DRY W/CLAY SILTY CLAY
			11					WATER FROM ABOVE
			17	1.1'	6.1	5) 35		
14							14	14.0'-14.75' RED BROWN SILTY CLAY, WET
			5			13:05		7
		×	6		u <u>u</u>			
			9					
			9	1.2'	4.2			14.75'-16.0' RED BROWN YELLOW SILTY
16						0.000	16	CLAY, WET - WATER FROM ABOVE
			4	_		13:10		16.0'-16.75' RED BROWN & YELLOW, WET
	=_		7					SILTY CLAY, TRACE SHALE GRAVEL
	Î		11					16.75'-17.75' RED BROWN SILTY CLAY, WET
	-		13	1.2'	2.8			17.75'-18.0' RED BROWN & YELLOW SILTY
18							18	CLAY & TRACE SHALE GRAVEL
			3			13:20		3
	3		7					18.0 RED BROWN & YELLOW SILTY CLAY
			9					WITH TRACE OF SHALE GRAVEL, WET
			15	1.5'	3.0		2	
20						18	20	3
		u:						6



BORING ID SB-31

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

333				3115	LOCATION	HANNIBAL, OH	
GEOLOGIST	CMH/TC	BORING DEPT	H (ft bgs)	30	DATE	12/12/2014	•
DRILLER(s)	11 .01.	WATER LEVEL	20	ft bgs	SAMPLE TIME _	12/11/2014 13:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OVERCAST, LIGHT	WINDS	SAMPLE DEPTH	ft bgs	
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	20s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
			5			13:30		20.0 BROWN RED & YELLOW GRAY
			9					SILTY CLAY WITH LITTLE SHALE
			- 11					GRAVEL, WET, TRACE
			10	1.4'	3.1			ORGANIC MATERIALS
22							22	
			0			13:40		22.0 BROWN RED & YELLOW GRAY SILTY CLAY
			3					WITH TRACE SHALE GRAVEL & TRACE OF
			4				_	ORGANIC MATERIAL, WET
			4	1.1'	4.2			
24		0					24	
			2			13:50		24.0 BROWN RED SILTY CLAY
			2				_	WITH ORGANIC MATERIAL (TRACE)
			3				1	& TRACE SHALE GRAVEL, PIECE OF
	_		4	1.0'	4.2		1	PLASTIC LINER @ 24.0'
26							26	
-			0			14:00		26.0'-27.0' BROWN RED SILTY CLAY
			4			TO VARIOUS	3 =====	WITH TRACE SHALE GRAVEL-WET
_			4					
			18	1.0'	3.9		-	27.0'-28.0' GRAY RED SILTY CLAY
28			0.55	Section .	281575		28	WITH IRON STAINING, DRY
			9			14:15		28.0 GRAY RED SILTY CLAY
			39				-	WITH IRON STAINING, DRY
		-	29				-	
_			50/4"	1.0'	4.3		33	SPOON REFUSAL @ 29.75'
30			00/				30	
					\vdash	1	-	·



BORING IDSB-32PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	CMH/TC	BORING DEPTH (ft bgs)	09	31	DATE	12/11/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	15:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CLEAR		SAMPLE DEPTH	3	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30s	и	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	PAD-GRAVEL & SAND-GRAY, MOIST
			16 12			15:50	_	
F	,-		8 7	1.0'	5.2			1.0' BROWN SILTY CLAY, DAMP
2							2	
			3 4			16:00		2.0 BROWN SILTY CLAY, DAMP W/LITTLE SHALE FRAGMENTS
E			7 50/5"	1.0'	1.4			
_ 4			48 11			16:05	4	4.0 SANDSTONE FRAGMENTS, WEATHERED 4.5' YELLOW BROWN SILTY CLAY, DRY
F	31		8	1.8'	0.0			5.5' RED BROWN CLAY, DAMP
6				1.0	0.0	00% miles	6	W/LITTLE SHALE FRAGMENTS
		1	3 3			16:15	O.	6.0 YELLOW & RED BROWN SILTY CLAY W/SHALE
			6 8	1.1'	0.0			LITTLE GRAVEL, DAMP
— 8			1		1	16:45	8	8.0 RED-BROWN & YELLOW
			1			13.13		SILTY CLAY WITH A TRACE
			2	1.2'	0.0			OF SHALE GRAVEL, TRACE OF ORGANIC MATERIAL, DAMP
<u> </u>						#	10	

ELEV: 1296.46

LAT: 39°41'50.09" N

LON: 80°53'55.07" W



BORING IDSB-32PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

					N	
GEOLOGIST	CMH/TC	BORING DEF	PTH (ft bgs)	31	DATE	12/12/2014
DRILLER(s)		WATER LEVE	ELNA	ft bgs	SAMPLE TIME _	12/11/2014 15:40
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS-	OVERCAST	SAMPLE DEPTH	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	20s		SAMPLE DESC.	-

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			3			12/11/2014		10.0 RED BROWN SILTY CLAY WITH A
		1	5			16:55		TRACE OF FINE SHALE GRAVEL & TRACE
			11					OF YELLOW SILTY CLAY
	C#		17	1.7'	0.0			
12							12	
			3			12/12/2014		12.0 RED BROWN WITH LITTLE
			3			8:00		YELLOW SILTY CLAY WITH TRACE
	ш		8					OF SHALE GRAVEL, DAMP
			6	2.0'	1.3	94		
14							14	
			2			8:10		14.0 RED BROWN WITH TRACE OF
			6					YELLOW SILTY CLAY WITH TRACE
			3					OF SHALE GRAVEL, DAMP
	_		17	1.7'	2.0	Ta)		
16	=				11		16	
			3			8:20		16.0 RED BROWN WITH TRACE OF YELLOW
			6					SILTY CLAY WITH TRACE OF SHALE
			8		8			GRAVEL, DAMP TO WET @ 17.0'
			10	1.25'	0.5			
18	_						18	, , , , , , , , , , , , , , , , , , , ,
			3			8:30		18.0 RED BROWN WITH TRACE OF YELLOW
			10				_	SILTY CLAY WITH LITTLE RED
			12					SANDSTONE GRAVEL
			14	1.3'	1.7			& TRACE OF SHALE GRAVEL, DAMP
20							20	
						1		



BORING ID SB-32

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

~~~				OITE		TIZITIDAL, OTT
GEOLOGIST	CMH/TC	BORING DEP	TH (ft bgs)	31	DATE	12/12/2014
DRILLER(s)		WATER LEVE	LNA	ft bgs	SAMPLE TIME _	12/11/2014 15:40
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	LIGHT WINDS-C	VERCAST	SAMPLE DEPTH	ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	20s		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20	ń						20	
			3			8:55		20.0 RED BROWN WITH TRACE YELLOW
			17	22				SILTY CLAY WITH LITTLE RED
			20					SANDSTONE & SHALE GRAVEL
			24	1.2'	2.0			VOIDS IN MATERIAL, DAMP
22	1		)			7	22	
		21	6			9:10		22.0 RED BROWN SILTY CLAY WITH SOME
	1		12					RED SANDSTONE GRAVEL, YELLOW
			32					SHALE GRAVEL WITH VOIDS, DAMP
			28	1.1'	1.2			
24							24	2
,,,,			4		X	9:40		24.0'-24.75' RED BROWN SILTY CLAY LITTLE
			6					SHALE GRAVEL, DAMP
			- 20					24.75'-26.0' GRAY WITH LITTLE YELLOW
			26	2.0'	1.8			SILTY CLAY WITH TRACE OF SHALE
26							26	GRAVEL & IRON STAINING, DAMP
			20			10:30		
			46				-	26.0 RED GRAY SILTY CLAY,
	-		50/5"	1.3'	4.3			VERY STIFF, DRY
								*
28							28	5
1			27	i i		12:10		28.0 RED GRAY SILTY CLAY,
	s		27					HARD, DRY
			28	ĮI.				
			30	1.0'	4.1			,
30							30	8
				65				



BORING IDSB-32PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	OLOGIST CMH/TC		PTH (ft bgs)	DATE	12/12/2014	
DRILLER(s)		WATER LEV	ELNA	ft bgs	SAMPLE TIME _	12/11/2014 15:40
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT WINDS-OV	ERCAST	SAMPLE DEPTH	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	20s	1.7	SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	* H	Lithologic Description
30						1972 1981 20	30	
	-		21			12:30	-	30.0 RED GRAY SILTY CLAY,
			42 50/4"	1.0'	6.0		_	HARD, DRY
_	-	-	50/4	1.0	0.0		·	
32			-				32	
	67 =						_	
_	_						_	:
34							34	
_	-							
		- 25						
			8					
36							36	8
_					2			9
-	5						_	
_				-			-	
38	-						38	
						1		<u></u>
	V					w.		8
40	2 2						40	1
40						1	40	



BORING ID SB-33

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	тс	BORING DEPTH (ft	bgs)	19	DATE	12/15/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	9:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CLOUDY		SAMPLE DEPTH		ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	40s		SAMPLE DESC.	3-	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			2	-		9:20		0.0 BROWN SILTY CLAY WITH TRACE
			3					ORGANIC MATERIAL,
			4					DRY TO DAMP
			3	1.0'	3.0			
2		3			4		2	
			4			9:30		2.0 VERY LITTLE RECOVERY
	:9		3				-	BROWN SILTY CLAY
	(5)		3					
			5	0.2'	2.1			
4							4	*
			4			9:35		4.0 BROWN RED & YELLOW SILTY CLAY,
			3					DAMP
			3					
			3	0.6'	2.2			
<u> </u>							6	
			3			9:45		6.0'-7.0' BROWN RED & YELLOW
			8					SILTY CLAY
			4					7.0'-8.0' BROWN MEDIUM SAND &
	V _R		6	0.9'	3.2			SANDSTONE GRAVEL, DRY
8							8	, ,
			3			9:55		8.0 RED BROWN WITH TRACE
			4					YELLOW SILTY CLAY, DAMP
			5					
1.75			6	1.25'	5.1			
10							10	

ELEV: 1293.92

LAT: 39°41'49.34" N

LON: 80°53'53.48" W



BORING ID SB-33

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

19 DATE 12/15/2014

GEOLOGIST	тс	BORING DEPTH (ft	19	DATE	12/15/2014		
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	9:05	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	CLOUDY		SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	40s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			3			10:00		10.0 RED-BROWN & YELLOW SILTY
			4					CLAY WITH TRACE SHALE GRAVEL, DAMP
-			5 6	1.8'	4.2		_	
12			0	1.0	7.2		12	
			7			10:05		12.0 RED-BROWN & YELLOW SILTY CLAY
			8					WITH TRACE OF SHALE GRAVEL & TRACE
11	, <del>,</del>		8					OF ORGANIC MATERIAL
			4	1.1	2.0	<del>2</del> 0		
14			111			]	14	
			3			10:20		14.0'-15.0' RED BROWN & YELLOW SILTY CLAY
			4					TRACE OF SHALE GRAVEL, DAMP
			4					15.0'-16.0' RED BROWN SILTY CLAY &
			7	1.5'	1.1			WEATHERED RED SHALE, DAMP
16							16	
		ν.	3			10:30		16.0'-16.5' RED BROWN SILTY CLAY
			4					16.5'-17.0' RED BROWN & GRAY SILTY
			9					CLAY WITH SOME IRON STAINING
			9	1.5'	2.4			17.0'-18.0' GRAY SILTY CLAY WITH
18							18	LITTLE IRON STAINING
-	-		14	- 7		10:40		18.0 GRAY YELLOW WEATHERED
			41					SHALE, DRY
_			50/3"	1.2'	1.7			
	=							REFUSAL @ 19.25'
20							20	



BORING ID SB-34

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEP	BORING DEPTH (ft bgs)			DATE12/15/2014		
DRILLER(s)		WATER LEVE	L	NA	ft bgs	SAMPLE TIME	8:30	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCA	ST, LIGHT	WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	PAD-GRAVEL & SAND, DAMP
			7	6		8:35		
			7					1.0' SOME BROWN SILTY CLAY
			9	3				7
			8	1.0'	0.0		1	1
2						a	2	
_			12			8:45	Name and Address of the Owner, where	2.0 DARK RED BROWN CLAY, DAMP
_			9					W/YELLOW BROWN SHALE FRAGMENTS
_			7	4.01				
		U	10	1.3'	0.0			LIGHT ORAY CANDOTONE EDACATE IN OUR
4						0.55	4	LIGHT GRAY SANDSTONE FRAGM'TS IN SHOE
_			20		ā	8:55	-	4.0 YELLOW BROWN SILTY SHALE,
		0.	17				-	DRY, WEATHERED/FRACTURED
_			24	A 41				
_	κ.		27	1.4'	0.2	4		
⁶			50/2"	0.2'	0.1	9:05	6	6.0 WEATHERED SANDY SHALE, DRY
_			50/2	0.2	0.1	9.05		0.0 WEATHERED SANDT SHALE, DRT
_				20			-	
_							_	1
⊢ 。							8	
°			27			9:12	O	8.0 DARK RED BROWNWEATHERED SHALE,
_		*	35	- 1		J. 12	_	DRY, FRACTURED
_		Y Y	37					511,110101125
_	2	.=	50/4"	1.8'	0.2		_	1
10			00/		J.,_		10	REFUSAL @ 9.9'
						1	100.000	

ELEV: 1293.06

LAT: 39°41'49.17" N

LON: 80°53'52.32" W



<b>BORING ID</b>	SB-35
PROJECT NUMBER	R NM6484
PROJECT NAME	EISENBARTH
SITE LOCATION	HANNIBAL, OH
27 DATE	12/15/2014

3				OHE		TITUTATE CE, C	211
GEOLOGIST	СМН	BORING DEPT	TH (ft bgs)	27	DATE	12/15/2014	
DRILLER(s)		WATER LEVE	NA	ft bgs	SAMPLE TIME _	9:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCAST, LIGHT	T WINDS	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	PAD-LIGHT GRAY GRAVEL W/SAND
			11			9:55		0.5' WET, FINE GRAVEL AND SAND
			10				A.	0.7' MEDIUM BROWN CLAY, DAMP
			4					
			4	1.2'	0.7			
							2	I I
			5			10:12		2.0 MEDIUM BROWN CLAY, DAMP
			7				-	
-			9					-
			13	0.9'	0.6		_	MEDIUM BROWN CLAY W/LITTLE
- 4			170:00	200000	14/10/20		4-	WEATHERED SANDSTONE FRAGMENTS
			5			10:24		NO RETURN
-			5				-	
			10				_	
			11	NR	<u></u>		8	**************************************
				10000000			6	-
			5			10:35	Ť	6.0 MEDIUM YELLOW BROWN CLAY, DAMP
			5		-	10.00		O.O MEDION FEELOW BROWN OF AT, BY WIL
	(9)	77	6				10	
		100	8	0.8'	0.5		_	
			۰	0.0	0.5			
°			4			10:45	8	O DARK BED BROWN CLAY DAMP
_			6			10.43	_	8.0 DARK RED BROWN CLAY, DAMP
-			9				_	
-	-		155	0.6'	0.4		( - C	O SUMULTEL E DOOT EDACMENTS
_			11	0.6	0.4	-		9.5' W/LITTLE ROOT FRAGMENTS
10							10	
								2

ELEV: 1295.96

LAT: 39°41'49.85" N

LON: 80°53'54.44" W



BORING IDSB-35PROJECT NUMBERNM6484PROJECT NAMEEISENBARTHSITE LOCATIONHANNIBAL, OH

GEOLOGIST	СМН	BORING DEF	PTH (ft bgs)	27	DATE	12/15/2014	
DRILLER(s)	11	WATER LEVI	ELNA	ft bgs	SAMPLE TIME _	9:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OVERCAST, LI	GHT WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30s		SAMPLE DESC.	g	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	<del>-</del>	Lithologic Description
10							10	
			0			10:55	10	10.0 DARK BROWN CLAY, SATURATED
			0				Description	
			5			10		11.0' DARK RED BROWN CLAY, DAMP
			7	0.6'	0.2			8
12							12	
_	R		7			10:58		12.0 DARK RED BROWN CLAY, DAMP
_			8					( <del></del>
_	_		10 10	0.4'	0.3	÷	-	7
<u> </u>			10	0.4	0.5		14	
			7			11:05	14	14.0 DARK RED BROWN CLAY, DAMP
_		-	8			1		*
	=		11					15.0' YELLOW BROWN CLAY,
	×		15	0.8'	0.2		-	DAMP, W/ LITTLE FRACTURED SHALE FRAGS
16							16	
	-		4			11:15		16.0' DARK RED FRACTURED SHALE, DRY
			5					
			5					17.5' MEDIUM YELLOW BROWN CLAY,
			19	0.6'	0.4			DAMP W/LITTLE SILT
18							18	
_			11			11:25		18.0 MEDIUM YELLOW BROWN CLAY,
_			5					DAMP W/LITTLE SILT
_			11 14	0.7'	0.5		-	-
			14	0.1	0.5		20	(
						,	20	(A) (1)



BORING ID SB-35

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

					-	170	
GEOLOGIST	СМН	BORING DEP	TH (ft bgs)	27	DATE	12/15/2014	
DRILLER(s)		WATER LEVE	LNA	ft bgs	SAMPLE TIME	9:45	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCAST, LIGH	TWINDS	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20							20	
		-	5	-		11:35		20.0' MEDIUM DARK YELLOW BROWN CLAY,
_	=		11				_	DAMP
_			14 16	0.6'	0.6		_	21.8' DARK RED BROWN CLAY, DAMP
	-		16	0.6	0.6			21.0 DARK RED BROWN CLAY, DAIVIP
			4			11:50		
	= (	-	7	3.				
	-		9					
			15	0.2'	0.4			
24	2						24	
_			7			12:05	- To-	24.0 DARK BROWN CLAY, DAMP SOMEMOTTLING
			25 36				_	SOMEMOTILING
_		0	50/5"	1.7'	0.4		-	
26			00/0	20.0			26	-
	0.		26			12:20	7.	26.0 DARK BROWN SHALE, DRY
	-	¥	28					8
		10	50/5"	0.6'	0.5			
			-					REFUSAL @ 27.5
28							28	
_		=			-			
_	ıŭ						· -	
_							-	
30	±l.		13				30	
								2 0



во	RING ID	SB-36						
PRO	JECT NUMBER	NM6484	-8					
PRO	JECT NAME	EISENBARTH						
SITE	LOCATION	HANNIBAL, OH	_					
21	DATE	12/15/2014						
ft bas	SAMPLE TIME	11:35						

GEOLOGIST	TC	BORING DEP	TH (ft bgs)		21	DATE	12/15/2014	
DRILLER(s)		WATER LEVE	L	NA	ft bgs	SAMPLE TIME	11:35	-
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCA	ST, LIGH	T WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0			36			FI	0	
			22			11:40		PAD - GRAY SILTY GRAVEL W/LITTLE
			28				_	BROWN SILTY CLAY, DAMP
			10			1		
			8	1.0'	10.3			,
2							2	
		0.0	4			12:00		
			4					NO RECOVERY
			5					
			4	NR	NA			
4							4	
			3			12:10		4.0 RED BROWN & YELLOW
			4					SILTY CLAY WITH SOME
			4					SHALE GRAVEL, DAMP
			5	1.1'	8.9			
6							6	1
		W	4			12:15		6.0 RED BROWN & YELLOW
			3					SILTY CLAY WITH TRACE
	(1) E()		2					SHALE GRAVEL
	) 		3	0.75'	4.6			
8	ē.		_				8	
			3			12:25		8.0 RED BROWN WITH LITTLE
	I)		3					YELLOW SILTY CLAY WITH
			6					SOMEYELLOW GRAY SHALE
			8	0.8'	3.6			GRAVEL. GRAVEL INCREASING
10					4		10	WITH DEPTH
	**************************************							

ELEV: 1295.99

LAT: 39°41'49.70" N

LON: 80°53'53.91" W



BORING ID SB-36

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

21 DATE 12/15/2014

3					0112		TO WITH DATE, C	
GEOLOGIST	TC	BORING DEP	TH (ft bgs)		21	DATE	12/15/2014	1 1
DRILLER(s)	to the Moor	WATER LEVE	LN	IA	ft bgs	SAMPLE TIME _	11:35	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCAST	, LIGHT	WINDS	SAMPLE DEPTH	- <u></u>	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	3	0s	11	SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10							10	
			5			12:31		10.0'-11.5' RED BROWN & YELLOW
		=	5		ā			SILTY CLAY & LITTLE SHALE GRAVEL-DAMP
			4					11.5'-12.0' BROWN RED SAND & SANDSTONE
			3	0.7'	5.1			GRAVEL, DAMP
12	7						12	
8			5			12:40		VERY LITTLE RECOVERY
			4					GRAY SILTY SHALE GRAVEL
	12		5					WITH VERY LITTLE TRACE OF RED
			3	0.1'	4.6			BROWN SILTY CLAY, DRY
14	\.						14	
	=		3	T ²		12:55		14.0'-15.5' RED BROWN SILTY CLAY WITH
			8					TRACE OF YELLOW GRAY SILTY CLAY
		()	16					SHALE TRACE GRAVEL
			10	1.7'	2.1			15.5'-16.0' YELLOW GRAY SAND MEDIUM
16							16	& SANDSTONE GRAVEL-DRY
			4			13:05		16.0'-17.0' BROWN YELLOW SILTY CLAY &
			8			Đ.	8	TRACE SHALE GRAVEL
			9					17.0'-18.0' RED BROWN SILTY CLAY
			12	1.2'	3.6	_		TURNING TO WEATHERED RED SHALE
<b></b> 18							18	· · · · · · · · · · · · · · · · · · ·
			4			13:20		18.0'-18.5' RED BROWN SILTY CLAY
			10					18.5'-19.5' RED BROWN SILTY CLAY
	2		14					WITH IRON STAINING, DRY
_	- 0		20	2.0'	3.9			19.5'-20.0' GRAY YELLOW SILTY CLAY, HARD
		-		11510002	5.77		20	



BORING ID	SB-36
PROJECT NUMBER	NM6484
PROJECT NAME	EISENBARTH
SITE LOCATION	HANNIBAL, OH

					· · · · · · · · · · · · · · · · · · ·		
GEOLOGIST	TC	BORING DEF	PTH (ft bgs)		DATE	12/15/2014	
DRILLER(s)	- Palmanno de Constitución de la	WATER LEV	ELft	bgs	SAMPLE TIME _	11:35	-
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER .	OVERCAST, LIGHT WIND	os_	SAMPLE DEPTH		_ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
20	-		31			15:35	20	20.0 GRAY YELLOW WEATHERED
			50/4"	0.5"	4.8	21 00-7 1 1000-700	100	SHALE
								SPOON REFUSAL @ 20.75'
22							22	
	ä							
24							24	
		n					77.0000	
			11					
26	=		×				26	
							n-	
28							28	
							_	
	=	II.	3					
30							30	



BORING ID SB-37

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

				SITE		HANNIDAL, C	<b>Л</b> П
GEOLOGIST	тс	BORING DEPTH	H (ft bgs)	7	DATE	12/15/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	13:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OVERCAST, LIGHT	WINDS	SAMPLE DEPTH	g.    2	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.	30s		SAMPLE DESC.	9	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
	-		35			13:50		0.0'-1.5' PAD - GRAY SILTY GRAVEL, DRY
			41					1.5'-2.0' RED BROWN & YELLOW
_			36			8		SILTY CLAY LITTLE SHALE
_			13	1.0'	2.3			FRAGMENTS (TRACE)
2	v.		5			14:00	2	2.0'-2.5' RED BROWN & YELLOW SILTY CLAY
			9			(r	d-	2.5'-3.5' GRAY YELLOW SILTY CLAY
-			10					WITH ORGANIC (ROOTS)
_			13	1.75'	3.9			3.5'-4.0' RED BROWN SILTY CLAY
4			7			14:20	4	4.0'-4.5' RED BROWN SILTY CLAY
			9					4.5'-6.0' YELLOW SILTY CLAY
	*		21					& WEATHERED YELLOW SHALE
			36	2.0'	1.4			
`	25		22			14:40		6.0'-6.75' YELLOW WEATHERED
			50/4"	0.75'	1.3		-	SHALE
							W	SPOON REFUSAL @ 6.75'
8							8	
					-		_	-
<b>-</b>	_		_				10	
						1		

ELEV: 1296.95

LAT: 39°41'50.53" N

LON: 80°53'54.92" W



PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

							60	
GEOLOGIST .	TC	BORING DEF	TH (ft bgs)		4	DATE	12/15/2014	w.
DRILLER(s)		WATER LEVE	EL	NA	ft bgs	SAMPLE TIME _	15:40	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	OVERCA	ST, LIGHT	WINDS	SAMPLE DEPTH		ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP		30s		SAMPLE DESC.	-	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0			16 28			15:40	0	PAD - WHITE SILTY GRAVEL, DRY
E			31 25	1.0'	3.6			
2			10 18 50	7		15:50	2	2.0'-2.75' WHITE SILTY GRAVEL, DRY 2.75'-4.0' YELLOW SILTY CLAY TO TURNS TO WEATHERED SHALE, DRY
4			50/5"	1.75' 0.2'	1.9	16:00	4	4.0 YELLOW WEATHERED SHALE
E			50/3	0.2	1.1	16.00		SPOON REFUSAL @ 4.25'
6	8)						6	
8							8	
E		¥6		Si.				
10		-					10	

ELEV: 1296.70

LAT: 39°41'50.76" N

LON: 80°53'54.79" W



BORING ID SB-39

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

						<u> </u>
GEOLOGIST	СМН	BORING DEP	TH (ft bgs)	12	DATE	12/15/2014
DRILLER(s)		WATER LEVE	L NA	ft bgs	SAMPLE TIME _	15:15
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCAST, LIGHT	WINDS	SAMPLE DEPTH	ft bgs
METHOD	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	30s		SAMPLE DESC.	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	PAD-GRAVEL & SAND, LIGHT GRAY, DRY
	-		9			15:15		
			11					
			12					1.0 YELLOW BROWN CLAY, DAMP
			20	1.0'	10.5			
2							2	2
			4			15:25	77	2.0 YELLOW BROWN SILTY CLAY
		ь г	5					W/LITTLE RED CLAY
			7					
			8	0.8'	14.8		-0/	
4							4	
			13		4	15:35		4.5' YELLOW BROWN SILTY CLAY,
			11					DAMP, TRACE SANDY SHALE FRAGMENTS
			6					4.7' DARK RED BROWN CLAY W/GRAY
			9	1.5'	2.5			MOTTLING & HIGHLY WEATHERED
6							6	SHALE FRAGMENTS
			5			15:50		
			8			1 pr - 4		7.0' DARK RED PURPLE CLAY
			6					7.2' YELLOW BROWN WEATHERED
			4	1.6'	1.7		N-	SHALE, FRACTURED, DRY
8							8	
			5	8		16:00		8.0 YELLOW BROWN WEATHERED SHALE,
			8					FRACTURED, DRY
			10					W/LITTLE GRAY
			14	0.5'	1.8			
10							10	4
					8			

ELEV: 1296.06

LAT: 39°41'50.11" N

LON: 80°53'54.27" W



BORING ID	SB-39
PROJECT NUMBER	NM6484
PROJECT NAME	EISENBARTH
SITE LOCATION	HANNIBAL, OH

GEOLOGIST	СМН	BORING DEF	PTH (ft bgs)	78-	12	DATE	12/15/2014	))
DRILLER(s)		WATER LEV	EL	NA	ft bgs	SAMPLE TIME _	15:15	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER .	OVERCA	ST, LIGH	T WINDS	SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP.		30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
10		72	13			16:10	10	10.0 MEDIUM YELLOW BROWN WEATHERED
			50/2"	0.5'	1.7	10.10		SHALE, FRACTURED, DAMP
	21 (i)						-	-
12			99				12	
		â.	45 50/2"	0.5'	0.9	16:20		REFUSAL
14		_					14	
				it.				
	-	= 0						
16	-					,	16	
	н							
				Na .				
18							18	
						12		
	-				i c		20	
	,							



BORING ID SB-40
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

GEOLOGIST	тс	BORING DEP	TH (ft bgs)		4.5	DATE	12/15/2014	
DRILLER(s)	315 - 144	WATER LEVE	L	NA	ft bgs	SAMPLE TIME _	16:25	2.0
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER _	OVERCAS	T, LIGHT	WINDS	SAMPLE DEPTH	<u> </u>	_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP		30s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME	I.	Lithologic Description
0				_			0	
⊢	**	= 29	20	_		16:30		0.0'-1.75' WHITE SILTY GRAVEL
_			19 15		-		-	
_			9	1.2'	3.2		1	1.75'-2.0' RED BROWN SILTY CLAY, TRACE
<b>–</b> 2	-		3	1.2	0.2			SHALE GRAVEL, DRY
	= ~		15			16:40		VERY LITTLE RECOVERY
			50/3"	0.2'	3.5			RED BROWN SILTY CLAY
								TO WEATHERED RED SHALE, DRY
				£.				
4						10.50	4	VELLOW OF TAX OF BAY INFATUEDED
		-	23 50/3"	0.75'	4.3	16:50		YELLOW SILTY CLAY, WEATHERED SHALE
			50/3	0.73	4.3		_	SHALE
_				= ,,				SPOON REFUSAL @ 4.75'
6				-	-		6	
	4							
					*			
				-				
8	= /						8	1
_							8	
$\vdash$							7	·
					-			
10	= = 1		= =				10	

ELEV: 1296.35

LAT: 39°41'50.60" N

LON: 80°53'53.97" W



BORING ID SB-41

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	TC	BORING DEPTH (f	t bgs)	5.5	DATE	12/16/2014	
DRILLER(s)	- 5 T	WATER LEVEL	NA	_ ft bgs	SAMPLE TIME _	8:07	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT RAIN		SAMPLE DEPTH		_ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	UPPER 40s		SAMPLE DESC.	7	

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0		7					0	
	-		28			8:10		0.0'-1.5' GRAVELWHITE WITH SILT
			29					& SAND-DAMP
4			31			40	3	1.5'-2.0' RED BROWN & YELLOW
1	-		16	1.2'	1.7		37.	SILTY CLAY WITH TRACE
2							2	SHALE GRAVEL
			15			8:40		2.0 YELLOW SILTY CLAY &
			17					WEATHERED SHALE WITH TRACE
			50/3"	1.0'	2.8			IRON STAINING
					į			
4		c					4	
		1	18			8:45		4.0 YELLOW WEATHERED SHALE
(4)			33					Tiple
			50/5"	1.2'	2.6	_		SPOON REFUSAL @ 5.4'
6							6	
		14						
-							-	
	1							
- 8			+:				8	
		W					7,12	
			_					
								-
10		00		80			10	

ELEV: 1296.15

LAT: 39°41'50.37" N

LON: 80°53'54.08" W



BORING ID SB-42

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

GEOLOGIST	СМН	BORING DEPTH (1	ft bgs)	4.5	DATE	12/16/2014	
DRILLER(s)		WATER LEVEL	NA	ft bgs	SAMPLE TIME _	7:50	
DRILLING CO.	GEO-ENVIRONMENTAL	WEATHER	LIGHT RAIN		SAMPLE DEPTH		ft bgs
METHOD .	HOLLOW STEM AUGER / SPLIT SPOON	TEMP	UPPER 40s		SAMPLE DESC.		

Depth	USCS Classification	Run Number	Interval	Return	PID	SAMPLE ID, DEPTH & TIME		Lithologic Description
0							0	
			3	10		8:15		0.0'-0.2' VEGETATION AND TOPSOIL, DAMP
	ļ ļ		4					0.2' MEDIUM YELLOW BROWN SILTY CLAY,
	1		5				i.	TRACE YELLOW SANDY SHALE FRAGMENTS
			8	1.3'	0.1			1.2' BECOMES DARK RED CLAY, DAMP
2			n n				2	
			10			8:25		
			15				) <del>.</del>	And the second s
			50/5"	1.2'	0.4			3.0' BECOMES MEDIUM YELLOW BROWN
								SHALE, DRY, WEATHERED
4						2	4	FRACTURED
			50/4"	0.4'	0.3	8:35		4.0' FRACTURED, DRY
								YELLOW BROWN SANDY SHALE
	P							REFUSAL @ 4.5'
- 6							6	
- 8							8	-
								¥
34								
					- 0		_	
							7	
10							10	
							.0	-

ELEV: 1251.14

LAT: 39°41'48.02" N

LON: 80°53'53.80" W

# APPENDIX B Well Construction Diagrams



#### MONITORING WELL INSTALLATION LOG

BORING ID SB-15

PROJECT NUMBER NM6484

PROJECT NAME EISENBARTH

SITE LOCATION HANNIBAL, OH

3	~						LU	G		SILE	LOCATION -	HANNIDAL,	Un
PENN E&F	3	94	СМН/ТС		WELL	DIAMETE	R		2"	inches	DATE	December 5, 201	4
DRILLER			504000000000		WELL	DEPTH		30.	00 .	ft bgs	GROUT TYPE	N/A	
DRILLING	CO.	GEO-E	NVIRONM	ENTAL	WATE	R LEVEL (	(during)	~	26.00	ft bgs	TOP OF GRO	UT N/A	ft bgs
METHOD	HOLLO	W STE	M AUGER/SP	LIT SPOON	WATE	R LEVEL (	(post)	$\overline{\nabla}$	28.71	ft bgs	PLUG TYPE	PURE GOLD (	HIPS
DRILL RIG				11	RISER	RTYPE		SCI	H 40 PVC		TOP OF PLUC	3 0.00	ft bgs
OUTER CA	ASING				TOP C	F RISER	0.5	ABOVE	GROUND	ft bgs	SAND TYPE	#2 GLOBAL FI	LTER
WELL TYP	E G	ROUNE	WATER MON	NITORING	SCRE	EN TYPE	¥	SCH 4	0 0.10 SLC	)T	TOP OF SANI	D 18.00	ft bgs
BORING D	IAMETER	! 	6.5	inches	SCRE	EN LENGT	гн	1	0.00	ft	WELL YIELD	N/A	gallons
BORING D	EPTH		30.00	ft bgs	TOP C	F SCREE	N	2	0.00	ft bgs	PUMP RATE	N/A	gal/min
Depth	Water Level	PID	Lithology	Litholo Descrip	7.7.	Nft	W	ell Instal Diagra	Wooden Anderson		Drilling/Cons	truction Details	
										0	ELEV:	1298.05	
									1	LAT: 39	9°41'52.90"N L	ON: 80°53'56.56'	W
o			Fill	Silt w/Sand	& Gravel		100		540				
_			Fill	Pad Surface, Dark Gray									
_	5		Fill	Olive Brown Weathered S	1000-1100-1					11			
5			Fill	Dark Olive Bro Fractured, Dar					15	Bentonite	0' to 18'		n ====================================
_			Fill	clay Dark Red Highly Fr						11			7
			Fill	Yellow Brown	Fractured					Schedule	40, 2" diameter P	VC riser	
_			FIII	Shale, Dark Red Clay w/Sh Yellow Brown Fracts	Dry ale Frag, Damp ured Shale Dry					(			<u> </u>
10			Fill	Yellow Brown Shale & Cl	Fractured								
_			Fill	Dark Red Fractured	Shale, Damp						24		
			Fill	Yellow Brown Fracti Yellow Brown Sand									
15			Fill	Yellow Brown Fracti			81						
_			Fill	Yellow Brown Sand Red Brown Clay, I	E9 1879, 1/2		1						
			ARCON.		the constitution of the co								
_			Fill	Yellow Brown Shale, Wea						Sand from	n 18' to 30'		
20				Fractured	d, Dry					Oand Iron	11 10 10 30		
			Fill	Olive Gray	Shale,								
- ,			FIII.	Weathered, Fra R-B Clay/We						-			B
25			Fill	Shale, Damp,						Slotted S	creen from 20' to	30'	
_			Fill	Sandy Gravel Pea Gravel, M									<u> </u>
			Weathered	Dark Red W					7				
			Shale	Shale, Dam Mottlii	Lieu-Mariana Maria								Į.
30							2000000	*					(i)
			11								8	P	
_													<del></del>
20020		ı		ı		l			- 1				



#### MONITORING WELL INSTALLATION LOG

BORING ID SB-20
PROJECT NUMBER NM6484
PROJECT NAME EISENBARTH
SITE LOCATION HANNIBAL, OH

3	~		184-24				LU	G		SILE	LOCATION	HANNIBAL, C	)H
PENN E&I	₹		CMH/TC		WELL	DIAMETE	R		2"	inches	DATE	December 8, 2014	1
DRILLER	<del>(</del>		7757		WELL	DEPTH		39	.00	— ft bgs	GROUT TYPE	E N/A	
DRILLING	co.	GEO-E	NVIRONM	ENTAL	WATE	R LEVEL (	during)		36.00	— ft bgs	TOP OF GRO	OUT N/A	ft bgs
METHOD	HOLLO	W STEN	/I AUGER/SPI	LIT SPOON	WATE	R LEVEL (	post)	$\overline{\nabla}$	24.86	— ft bgs	PLUG TYPE	PURE GOLD C	— HIPS
DRILL RIC	G	-			RISER	TYPE		SC	H 40 PVC		TOP OF PLU	G 2.00	ft bgs
OUTER C	ASING		-		TOP C	F RISER	1.67	ABOV	E GROUND	ft bgs	SAND TYPE	#2 GLOBAL FIL	TER
WELL TY	PE G	ROUND	WATER MON	NITORING	SCRE	EN TYPE		0.	10 SLOT		TOP OF SAN	D 27.00	ft bgs
BORING I	DIAMETER	10	6.5	inches	SCRE	EN LENGT	Ή	1	0.00	ft	WELL YIELD		gallons
BORING [	DEPTH		39.00	ft bgs	TOP C	F SCREE	N	2	9-39	ft bgs	PUMP RATE		gal/min
Depth	Water Level	PID	Lithology	Litholo Descrip		Nft	We	ll Insta Diagra			Drilling/Cons	truction Details	
0										LAT: 39		(LEV: 1295.53 ON: 80°53'56.53"\	<b>~</b>
-			Fill	Light Gray Gravel w/si Med Yellow Brow									
			20220	Med Yellow Br	own Silty		100			1			
			Fill	Clay & Shale Damp						Bentonite	2' to 27!		
5 			Fill	Yellow & I Silty Clay & Gravel,	Shale,	=				Schedule	40, 2" diameter F	PVC riser	
10			Fill	Yellow Brow Clay with a Gravel,	Shale,						9		
			Fill	Red Brown Clay, I Fragmer	Damp, Shale								
			Fill	Med, Yellow Br Damp, Yellow Br	own Clay, own Sandy		2					X	## ##
15			Fill	Shale Fragi Dark Gray Sar Fragments	ndy Shale				5	-		7,100	
			Fill	Med. Yellow Brown Clay, Shale Fragm	Demp w/Sandy ents						1		
			Fill	Becomes Dark F Damp Dark Red Bro									
<b>—</b>			Fill	Dark Red Bro Damp, Little Fragme	Shale								
—— 20 —			Fill	Med. Yellow Bro Shale, Fracture	wn Sandy					-			
			Fill	Dark Red Brown ( @ 23.2' Some Ro									
25			Fill	Yellow Brow Damp, Wea Fractured St	athered			ightharpoons			2		
			Fill	Red Brown C Shale Fragme									
			Sandy Shale	Med. Yellow Bro	wn Sandy					Sand fro	m 27' to 39'		
30			Clay	Shale, Damp, P Dark Red Brown C Yellow Brown Sand	y Shale back					Carla ii C		10	
35			Shale	Dark Red Sh Fractured Olive Brown back to Da	nale, Dry, to Med Shale, rk Red					Slotted S	Screen from 29'	to 39'	

Total Depth = 39'



# MONITORING WELL **INSTALLATION**

**BORING ID** SB-21 NM6484 PROJECT NUMBER PROJECT NAME **EISENBARTH** SITE LOCATION HANNIBAL OH

PENN E&R	3							LU	G		SHE	LOCATION	HANNIBAL,	OH
DRILLING CO.   GEO-ENVIRONMENTAL   WATER LEVEL (durley)	PENN E&R	₹-		СМН/ТС		WELL	DIAMETE	R		2"	inches	DATE	December 9, 201	14
METHOD MOLIOW STEM AUGERISPLIT SPOON  MATER LEVEL (post)  □ PILES TYPE □ SCH 40 PVC □ TOP OF PLUG	DRILLER	1		2222		WELL	DEPTH	\$1 <del>555</del>	33.	00	ft bgs	GROUT TYPE	N/A	i i i i i i i i i i i i i i i i i i i
DRILL RIG	DRILLING	co.	GEO-E	NVIRONM	ENTAL	WATE	R LEVEL (	(during)		30.00	ft bgs	TOP OF GROU	JT N/A	ft bgs
OUTER CASING	METHOD	HOLLO	W STE	M AUGER/SP	LIT SPOON	WATE	R LEVEL (	(post)	$\overline{\nabla}$	27.80	ft bgs	PLUG TYPE	PURE GOLD	CHIPS
## Care	DRILL RIG					RISER	TYPE		SCI	H 40 PVC	<del>=</del> );	TOP OF PLUG	0.00	ft bgs
## BORING DIAMETER   6.5   inches   SCREEN LENGTH   10.00   ft   WELL YIELD   gallons   ## BORING DEPTH   23.00   ft   bgs   TOP OF SCREEN   23.00   ft   bgs   PUMP RATE   — gal/min   ## BORING DEPTH   23.00   ft   bgs   TOP OF SCREEN   23.00   ft   bgs   PUMP RATE   — gal/min   ## Depth   Water   PID   Lithology   Lithologic   Description   Nft   Well installation   Drillling/Construction Details   ## Cray Road Material   Fill   Material Material   Fill	OUTER CA	ASING			- 8	TOP C	F RISER	2.14	ABOVE	GROUND	ft bgs	SAND TYPE	#2 GLOBAL F	ILTER
BORING DEPTH	WELL TYP	E G	ROUNE	WATER MON	NITORING	SCRE	EN TYPE	203	0.1	10 SLOT		TOP OF SAND	21.00	ft bgs
Depth Water Level PID Lithology Lithologic Description Nft Well Installation Diagram Drilling/Construction Details  ELEV: 1295.59  LAT: 39°41'43.38"N LON: 80°53'56.78"W  Fill Dark You've Brown City Welline Fragments, Damp  Fill Section Fragments, Damp  Fill Clay Road Material  Fill Clay Road Material  Fill Dark You've Brown City Welline Fragments, Damp  Fill Section Fragments, Damp  Fill Section Fragments, Damp  Fill Clay Well Clay Well Dark Fragments, Damp  Fill Section Fragments, Damp  Schedule 40, 2" diameter PVC riser  Fill Gray Yellow Tory Into Yellow Gray Sity Clay Well Shale Gravel, Damp  Fill Gray Sity Clay & Shale Gravel, Damp  Fill Section Fragments, Damp  Fill Section Fragments, Damp  Fill Section Fragments, Damp  Fill Section Fragments, Damp  Fill Gray Sity Clay & Shale Gravel, Damp  Fill Brown Sendatore, Dry  Fill Section Fragments, Damp  Fill Section Fragm	BORING D	IAMETER		6.5	inches	SCRE	EN LENGT	гн	1	0.00	ft —	WELL YIELD		gallons
Level PID Littiningly Description Wit Diagram Diffilingly-Construction betails  ELEV: 1295.59 LAT: 39°41'43.38'N LON: 80°53'56.78'W  Fill Description Brown City willing Fragments, Dump Fill Construction State City Willing Fragments, Dump Fragments, Dump to Dry Sandy Shale Sandy City Shale Fragments State City Willing State City City & Shale Carevel, Damp to Dry Sandy Shale Sandy City Shale Fragments State City Willing State City City Willing State City City Willing State City City Willing State City City City City City City City City	BORING D	EPTH		23.00	ft bgs	TOP C	F SCREE	N	2	3.00	ft bgs	PUMP RATE		gal/min
LAT: 39°41'43,38"N LON: 80°53'56.78"W  Fill Circy Road Material Fill Intervalve flow do for color from the State State Fromments (and the State State Fromments (b) and the State Fromments (b) and th	Depth	Accommodate and	PID	Lithology			Nft	We				Drilling/Const	ruction Details	
	5 — 10 — 15 — 20 — 25 —			Fill Fill Fill Fill Fill Fill Fill Fill	Med Yellow Brown Sity Sand & Shale Fire Sand Sand & Shale Fire Sand Sand Sand Sand Sand Sand Sand Sand	Cay, Damp. Little agenetis  rown Clay nts, Damp cured, Dry to Dark effering shale, Dry  Shale Dry  We Shale Dry  y & Shale Dry  y & Shale, Dry  Shale, Dry  Wishale Gravel Dry  Yellow  Clay & cavel, Dry  And Shale, Dry  Yellow  Clay & cavel, Dry  And Shale, Shale, Dry  And Shale, Shale, Dry  And Shale, Sha					Schedule  Sand 21'-	39°41'43.38"N  0'-23'  40, 2" diameter P'	LON: 80°53'56	.78"W



#### MONITORING WELL **INSTALLATION**

SB-25 **BORING ID** PROJECT NUMBER NM6484 PROJECT NAME **EISENBARTH** 

<b>***</b>	<b>**</b>			alation, ma			LO	G	SITE	LOCATION	HANNIBAL,	OH
PENN E&F	₹		CMH/TC		WELL	DIAMETER	₹	2"	inches	DATE De	ecember 10, 20	14
DRILLER	<del>12</del>				WELL	DEPTH	95	23.00	ft bgs	GROUT TYPE	N/A	Y (1)
DRILLING	co.	GEO-E	NVIRONM	ENTAL	WATE	R LEVEL (	during)	20.00	— ft bgs	TOP OF GROUT	Γ N/A	ft bgs
METHOD	HOLLO	W STE	M AUGER/SPI	LIT SPOON	WATE	R LEVEL (	post)	DRY	ft bgs	PLUG TYPE	PURE GOLD O	— CHIPS
DRILL RIG			222		RISER	RTYPE	ì	SCH 40 PVC		TOP OF PLUG	0.00	ft bgs
OUTER CA	ASING				TOP C	F RISER	1.1 /	ABOVE GROUND	ft bgs	SAND TYPE	#2 GLOBAL FI	LTER
WELL TYP	PE G	ROUNE	WATER MON	ITORING	SCRE	EN TYPE		0.10 SLOT		TOP OF SAND	11.00	ft bgs
BORING D	IAMETER	1	6.5	inches	SCRE	EN LENGT	Н	10.00	ft	WELL YIELD		gallons
BORING D	EPTH	39	23.00	ft bgs	TOP C	OF SCREEN	ч —	13.00	ft bgs	PUMP RATE		gal/min
Depth	Water Level	PID	Lithology	Litholo Descrip		Nft	We	Il Installation Diagram	9	Drilling/Constru	uction Details	
0			Fill	Pad Mat Brown Silty Cl	ay, Dry to				LAT:	ELEV: 12 39°41'51.91"N L		.51"W
5				Damp Brown Silty Large Red Gravel. Gray Brown Silty Clay w Gravel,	Shale Drv & Yellow /Shale					40, 2" diameter PVC	C riser	
	10		Fill	Yellow Gra Clay & S Gravel,	hale Dry				-			
			e	Yellow Gray Red Brow Clay & Gra Grav	n Silty y Shale el				Sand from	n 11'-23'		
—— 15 —			Fill	Brown Gra Clay					7		<u>.</u>	Windows and the second
			Silty Clay & Shale Gravel	Yellow Brow Red Brow Clay w/Little Gravel, D: Wet	n Silty e Shale amp to				Slotted S	creen from 13'-23'		
	. 3		E,	No Return, Wet		~			St.			- 48
25	·				=	_				W		
30										11		· · · · · · · · · · · · · · · · · · ·
								2	-	,		
												1



#### MONITORING WELL INSTALLATION LOG

<b>BORING ID</b>	SB-27	
PROJECT NUMBER	NM6484	_
PROJECT NAME	EISENBARTH	_
SITE LOCATION	HANNIBAL, OH	_

						LO	G	SILE	LOCATION	HAININIDA	L, OH
PENN E&R		CMH/TC		WELL	DIAMETE	R	2"	inches	DATE D	December 11,	2014
DRILLER		E _{tten}		WELL	DEPTH	**	30.00	— ft bgs	GROUT TYPE	N	/A
DRILLING CO.	GEO-	ENVIRONM	ENTAL	WATE	ER LEVEL (	(during)	18.50	ft bgs	TOP OF GROU	JT N/A	ft bgs
METHOD HOL	OW STE	M AUGER/SP	LIT SPOON	WATE	ER LEVEL (	(post)	DRY	ft bgs	PLUG TYPE	PURE GOLI	CHIPS
DRILL RIG				RISEF	RTYPE		SCH 40 PVC		TOP OF PLUG	0.00	ft bgs
OUTER CASING			¥i.	TOP (	OF RISER	2.23	ABOVE GROUND	ft bgs	SAND TYPE	#2 GLOBAL	FILTER
WELL TYPE	GROUNI	DWATER MON	NITORING	SCRE	EN TYPE		0.10 SLOT		TOP OF SAND	11.00	ft bgs
BORING DIAMETE	R	6.5	inches	SCRE	EN LENGT	гн	10.00	ft	WELL YIELD		gallons
BORING DEPTH		23.00	ft bgs	TOP (	OF SCREE	N	13.00	ft bgs	PUMP RATE	222	gal/min
Depth Water Level	PID	Lithology	Litholo Descrip		Nft	W	ell Installation Diagram		Drilling/Const	ruction Detail	s
0 5 10 15 20 25 30		Fill Fill Fill Sanuy Shale Sandy Clay Shale Clay Shale	Road Base-Light G Sand, Mi Med Yellow Motet Reddish Bro Damp, wYello Shale Frag Sandstone C Shoe, Brown Dry Gray Brown Sa Fracum Yellow Brown Sar  Shale, Wei and Fractur  Yellow B Sandy/Grav Saturated to Brown Shale	nistin sility Clay, wn Clay, wn Clay, wn Clay, wn Gray, nn Gray, nn Gray, nn Gray, nn Gray, nn Clay, t w/Gray shale cents dy Shale-Dry dd ddy Clay, Dry dd twy, Frechured rown ely Clay o Yellow				Schedule Sand 11'-	39°41'51.17"N 0'-11' 40, 2" diameter P\		57.65"W

1		
	Penn	E&R
	Environmental & R	emediation, Inc.

# MONITORING WELL

SB-31 **BORING ID** PROJECT NUMBER NM6484

				ediction Inc		IN21	ALL	AII	ON	PRO	JECT NAME	EISENBAR	RTH
$\approx$	₩ Env	ronme	ntal & Reme	ediation, Inc.			LO	G		SITE	LOCATION	HANNIBAL,	OH
PENN E&F	?		CMH/TC		WELL	DIAMETE	R		2"	inches	DATE De	ecember 12, 20	)14
DRILLER	<u> </u>	,			WELL	DEPTH		30.	00	ft bgs	GROUT TYPE	N/A	
DRILLING	co.	GEO-E	NVIRONM	ENTAL	WATE	R LEVEL (	during)		20.00	— ft bgs	TOP OF GROU	T N/A	ft bgs
METHOD	HOLLO	W STE	M AUGER/SPI	LIT SPOON	WATE	R LEVEL (	post)	$\overline{\nabla}$	21.24	ft bgs	PLUG TYPE	PURE GOLD	CHIPS
DRILL RIG				- 70	RISER	TYPE		SC	H 40 PVC	_	TOP OF PLUG	0.00	ft bgs
OUTER CA	ASING		-		TOP C	F RISER	0.61	ABOVE	E GROUND	ft bgs	SAND TYPE	#2 GLOBAL F	ILTER
WELL TYP	e _c	SROUN	DWATER M	ONITOR	SCRE	EN TYPE		0.	10 SLOT		TOP OF SAND	18.00	ft bgs
BORING D	IAMETER		6.5	inches	SCRE	EN LENGT	Ή	1	0.00	ft	WELL YIELD		gallons
BORING D	EPTH		30.00	ft bgs	TOP C	F SCREE	N	2	0.00	ft bgs	PUMP RATE	der en on pai	gal/min
Depth	Water Level	PID	Lithology	Litholo Descrip		Nft	We	ell Insta Diagra			Drilling/Constru	uction Details	21
											ELEV:	1296.62	
						54				LAT:	39°41'50.22"N	LON: 80°53'55	5.56"W
o				D 184									
			Fill	Pad Material & Sand, Gra	y, Damp.	*				Bentonite	0' to 18'		
_				@ 3.8' Dar Wet, Petrole									
				Medium Re	d Drown			-	<b>35</b>				
5 _			Fill	Clay, Damp	w/Little					Schedule	40, 2" diameter PV	C riser	
_			Fill	Shale Frag									
		10	Fill	Dark Brown CI Becomes Wet,	ay, Damp,					9			
10			- "	Damp at Brown Red S	9.7'								
—			Fill	w/Trace Shall Yellow Silty Cla	e Gravel					2		-	
				Tollow City Old	y Worldie								
_				Secret Carling Co.	W 400.		JĒ			8	*		
15				Red Brov Yellow Silt			100			8			
	1			Trace Shale We					4				
_				***						-			
20			Fill							Sand from	n 18'-30'		
				Brown R	od 9				-				
_				Yellow Silt	y Clay								
				w/Trace : Gravel and									
25				Organic IV	laterial					-	- 15-1		
				Brown Red to Gray Silty C Gravel, W	lay wTrace Shale					Slotted S	creen from 20'-30'	55	
				Gray Red S with Iron S	ilty Clay								
-				Dry							1		
30							300000			70			
<u> </u>				26								TO WE THE TO SERVICE OF THE TOP O	
_												XOXOXOXO	
35										-			

#### **EISENBARTH PAD SOIL SAMPLING DATA**

							USEPA Region 5 RCRA	OUEDA 1-3 - 1-17
Sample ID	Collection Date	Collection Time	Analytes	Results	LOQ	Units	(µg/kg)	OHEPA Industrial / Commercial (µg/kg)
SB-1 / 0'-2'	11/24/2014	13:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,00
•			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,80
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,00
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,00
			chrysene	ND		μg/Kg-dry	4,730	5,800,00
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,80
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	31		μg/Kg-dry	2,500	110,000,000
			Benzene Toluene	8.3 7.2		μg/Kg-dry	255 5,450	140,000 820,000
			Ethylbenzene	7.2 1.4 J		μg/Kg-dry μg/Kg-dry	5,160	480,000
			xylenes, total	3.2 J		μg/Kg-dry	10,000	260,00
			Isopropylbenzene	0.22 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,00
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.8		S.U.	N/A	N/
			*TTPC	39.7	2.93	μg/Kg	N/A	859,33
			PID	0.5		ppm	N/A	N/
SB-1 / 2'-4'	11/24/2014	14:25	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	16 13		μg/Kg-dry	2,500 255	110,000,000
			Benzene Toluene	8.1		μg/Kg-dry μg/Kg-dry	5,450	140,000 820,000
			Ethylbenzene	2.6 J		μg/Kg-dry	5,450 5,160	480,000
			xylenes, total	3.6 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	0.33 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	7.9		S.U.	N/A	N/
			*TTPC	ND	0.286	μg/Kg	N/A	859,33
			PID	0.6		ppm	N/A	N/
SB-2 / 0'-2'	11/24/2014	14:45	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,80
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,00
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene	ND ND		μg/Kg-dry	18,400 109,000	5,800 58,000
			Acetone	13		μg/Kg-dry μg/Kg-dry	2,500	110,000,000
			Benzene	4.1 J		μg/Kg-dry	2,300	140,000
			Toluene	1.1 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.20 J		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,00
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.3		S.U.	N/A	N/
			*TTPC	0.286	0.270	μg/Kg	N/A	859,33
			PID	0.4		ppm	N/A	N/
SB-2 / 4'-6'	11/24/2014	15:10	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,00
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,80
			indeno(1,2,3-cd)pyrene	ND 13		μg/Kg-dry	109,000	58,00 110,000,00
			Acetone Benzene	13 0.46 J		μg/Kg-dry μg/Kg-dry	2,500 255	140,000
			Toluene	0.46 J ND		μg/Kg-dry μg/Kg-dry	5,450	820,000 820,000
			Toluelle			μg/Kg-dry μg/Kg-dry	5,160	480,00
				IXII Y		us/ng-uly	2,100	400.00
			Ethylbenzene	ND ND				
			Ethylbenzene xylenes, total	ND		μg/Kg-dry	10,000	260,00
			Ethylbenzene xylenes, total Isopropylbenzene	ND ND		μg/Kg-dry μg/Kg-dry	10,000 N/A	260,000 270,000
			Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99	260,000 270,000 450,000
			Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99 N/A	260,000 270,000 450,000 N/A
			Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND ND ND	0.264	μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99	260,000 270,000 450,000 N/A N/ 859,33

January 7, 2015

SB-3 / 0'-2'								
	11/25/2014	8:41	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	21		μg/Kg-dry	2,500	110,000,000
			Benzene	8.7		μg/Kg-dry	255	140,000
			Toluene	3.5 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.76 J		μg/Kg-dry	5,160	480,000
			xylenes, total	1.3 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	0.26 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.2		S.U.	N/A	N/A
			*TTPC		0.205			
				0.812	0.285	μg/Kg	N/A	859,330
			PID	0.2		ppm	N/A	N/A
B-4 / 0'-2'	11/25/2014	9:41	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	18		μg/Kg-dry	2,500	110,000,000
			Benzene	1.6 J		μg/Kg-dry	255	140,000
			Toluene	1.7 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.32 J		μg/Kg-dry	5,160	480,000
			xylenes, total	1.1 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			-					
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.7		S.U.	N/A	N/A
			*TTPC	ND	0.277	μg/Kg	N/A	859,330
			PID	0.3		ppm	N/A	N/A
B-4 / 2'-4'	11/25/2014	9:51	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	10		μg/Kg-dry	2,500	110,000,000
			Benzene	1.6 J		μg/Kg-dry	255	140,000
			Toluene	0.71 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	9		S.U.	N/A	N/A
			*TTPC	ND	0.258	μg/Kg	N/A	859,33
			PID	0.6		ppm	N/A	N/A
B-5 / 0'-2'	11/25/2014	10:23	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
3 3 7 3 2	11, 23, 201 :	10.23	benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene					
				ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			dibelizo(a,ii)aiitiii aceile				100 000	58,000
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	30,000
				ND 21		μg/Kg-dry μg/Kg-dry		
			indeno(1,2,3-cd)pyrene Acetone	21		μg/Kg-dry	2,500	110,000,000
			indeno(1,2,3-cd)pyrene Acetone Benzene	21 1.8 J		μg/Kg-dry μg/Kg-dry	2,500 255	110,000,000 140,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene	21 1.8 J 2.7 J		μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450	110,000,000 140,000 820,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene	21 1.8 J 2.7 J 0.44 J		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160	110,000,000 140,000 820,000 480,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total	21 1.8 J 2.7 J 0.44 J 1.5 J		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160 10,000	110,000,000 140,000 820,000 480,000 260,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene	21 1.8 J 2.7 J 0.44 J 1.5 J ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160 10,000 N/A	110,000,000 140,000 820,000 480,000 260,000 270,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total	21 1.8 J 2.7 J 0.44 J 1.5 J		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160 10,000	110,000,000 140,000 820,000 480,000 260,000 270,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene	21 1.8 J 2.7 J 0.44 J 1.5 J ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160 10,000 N/A	110,000,000 140,000 820,000 480,000 260,000 270,000 450,000
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	21 1.8 J 2.7 J 0.44 J 1.5 J ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160 10,000 N/A 99 N/A	110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A
			indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	21 1.8 J 2.7 J 0.44 J 1.5 J ND	0.262	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	2,500 255 5,450 5,160 10,000 N/A 99	110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A

SB-5 / 2'-4'	11/25/2014	10:37	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	14		μg/Kg-dry	2,500	110,000,000
			Benzene	2.3 J		μg/Kg-dry	255	140,000
			Toluene	0.80 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.9		S.U.	N/A	N/A
			*TTPC	ND	0.261	μg/Kg	N/A	859,330
			PID	0.4	0.201	ppm	N/A	N/A
SB-6 / 0'-2'	11/25/2014	11:30	benzo(a)anthracene	8.6		μg/Kg-dry	5,210	58,000
35 0 / 0 2	11/23/2014	11.50	benzo(a)pyrene	24		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	19		μg/Kg-dry μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	16			148,000	580,000
						μg/Kg-dry		
			chrysene	5.9 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	20		μg/Kg-dry	109,000	58,000
			Acetone	43		μg/Kg-dry	2,500	110,000,000
			Benzene	13		μg/Kg-dry	255	140,000
			Toluene	12		μg/Kg-dry	5,450	820,000
			Ethylbenzene	1.8 J		μg/Kg-dry	5,160	480,000
			xylenes, total	4.5 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	0.29 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.0		S.U.	N/A	N/A
			*TTPC	2.65	0.282	μg/Kg	N/A	859,330
			PID	0.3		ppm	N/A	N/A
SB-6 / 24'-26'	11/25/2014	13:25	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	15		μg/Kg-dry	2,500	110,000,000
			Benzene	30				
						IIØ/KØ-drv	255	
						μg/Kg-dry	255 5.450	140,000
			Toluene	12		μg/Kg-dry	5,450	140,000 820,000
			Toluene Ethylbenzene	12 3.3 J		μg/Kg-dry μg/Kg-dry	5,450 5,160	140,000 820,000 480,000
			Toluene Ethylbenzene xylenes, total	12 3.3 J 5.3 J		μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,450 5,160 10,000	140,000 820,000 480,000 260,000
			Toluene Ethylbenzene xylenes, total Isopropylbenzene	12 3.3 J 5.3 J 0.42 J		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,450 5,160 10,000 N/A	140,000 820,000 480,000 260,000 270,000
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	12 3.3 J 5.3 J 0.42 J ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,450 5,160 10,000 N/A 99	140,000 820,000 480,000 260,000 270,000 450,000
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	12 3.3 J 5.3 J 0.42 J ND ND		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH	12 3.3 J 5.3 J 0.42 J ND ND 7.9	0.200	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry βS.U.	5,450 5,160 10,000 N/A 99 N/A N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg	5,450 5,160 10,000 N/A 99 N/A N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330
CD 7 (2) 5:	44/05/000	4.5-5-5	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg	5,450 5,160 10,000 N/A 99 N/A N/A N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 58,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 580,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 580,000 5,800,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 580,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 580,000 5,800,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 5,800,000 5,800,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 5,800,000 5,800,000 5,800
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 58,000 580,000 5,800,000 5,800 58,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 5,800,000 5,800 58,000 110,000,000 140,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 5,800 58,000 110,000,000 140,000 820,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7 1.4 J	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 58,000 580,000 5,800 58,000 110,000,000 140,000 820,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7 1.4 J 4.6 J 0.25 J	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000 480,000 260,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7 1.4 J 4.6 J 0.25 J ND	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg ppm µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 5,800,000 5,800 58,000 110,000,000 140,000 820,000 480,000 270,000 450,000
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7 1.4 J 4.6 J 0.25 J ND ND	0.288	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99 N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 580,000 580,000 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7 1.4 J 4.6 J 0.25 J ND ND ND ND ND ND ND ND ND ND		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99 N/A N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 5,800 58,000 5,800,000 5,800,000 110,000,000 140,000 820,000 480,000 270,000 450,000 N/A N/A
SB-7 / 0'-2'	11/25/2014	14:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC PID benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	12 3.3 J 5.3 J 0.42 J ND ND 7.9 ND 1 15 28 24 17 13 ND 20 29 4.3 J 6.7 1.4 J 4.6 J 0.25 J ND ND	2.59	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99 N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 N/A 58,000 58,000 580,000 580,000 580,000 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A

SB-7 / 4'-6'	11/25/2014	15:15	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	9.2 J		μg/Kg-dry	2,500	110,000,000
			Benzene	1.1 J		μg/Kg-dry	255	140,000
			Toluene	1.3 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.24 J		μg/Kg-dry	5,160	480,000
			xylenes, total	1.0 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	430,000 N/A
			рН	8.2		μg/ Ng-ur y S.U.	N/A	N/A
			*TTPC	0.542	0.267	μg/Kg	N/A	859,330
			PID	0.5	0.207		N/A	N/A
SB-8 / 0'-2'	11/25/2014	15:30	benzo(a)anthracene	6.2 J		ppm μg/Kg-dry		
3B-0 / U -Z	11/25/2014	15.50					5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	3.8 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	20		μg/Kg-dry	2,500	110,000,000
			Benzene	1.8 J		μg/Kg-dry	255	140,000
			Toluene	3.6 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.92 J		μg/Kg-dry	5,160	480,000
			xylenes, total	2.1 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.3		S.U.	N/A	N/A
			*TTPC	52.2	2.58	μg/Kg	N/A	859,330
			PID	0.7		ppm	N/A	N/A
SB-8 / 4'-6'	11/25/2014	15:40	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
35 07 1 0	11/25/2011	13.10	benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			• •					
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	9.7 J		μg/Kg-dry	2,500	110,000,000
			Benzene	0.43 J		μg/Kg-dry	255	140,000
			Toluene	0.43 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.2		S.U.	N/A	N/A
			*TTPC	ND	0.265	μg/Kg	N/A	859,330
			PID	0.2		ppm	N/A	N/A
SB-9 / 0'-2'	12/3/2014	10:32	benzo(a)anthracene	8.9		μg/Kg-dry	5,210	58,000
,			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	5.2 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND			18,400	5,800
			indeno(1,2,3-cd)pyrene	ND ND		μg/Kg-dry		
						μg/Kg-dry	109,000	58,000
			Acetone	9.3 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND 0.66 I		μg/Kg-dry	255	140,000
			Toluene	0.66 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			naphthalene isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			naphthalene isopropyl alcohol pH	ND 8.6		μg/Kg-dry S.U.	N/A N/A	N/A N/A
			naphthalene isopropyl alcohol	ND	2.91	μg/Kg-dry	N/A	N/A

SB-9 / 2'-4'	12/3/2014	10:37	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
				ND			18,400	5,800
			dibenzo(a,h)anthracene			μg/Kg-dry		
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.30 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND			99	450,000
						μg/Kg-dry		
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.7		S.U.	N/A	N/A
			*TTPC	ND	0.266	μg/Kg	N/A	859,330
			PID	0.6		ppm	N/A	N/A
SB-9 / 2'-4'	12/3/2014	10:37	benzo(a)anthracene	8.6		μg/Kg-dry	5,210	58,000
DUPE - 1			benzo(a)pyrene	12		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	9.6		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene					
				5.5 J		μg/Kg-dry	148,000	580,000
			chrysene	4.1 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	6.2 J		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	11		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.25 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.7		S.U.	N/A	N/A
			*TTPC	ND	0.266	μg/Kg	N/A	859,330
SB-10 / 0'-2'	12/3/2014	11:05	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
35 10 / 0 2	12/3/2011	11.03	benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	12 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.99 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pН	8.3		S.U.	N/A	N/A
			*TTPC	113	13.4	μg/Kg	N/A	859,330
			PID	1.5	13	ppm	N/A	N/A
CD 10 / 2! 4!	12/2/2014	11.20						
SB-10 / 2'-4'	12/3/2014	11:20	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	2.9 J		μg/Kg-dry	2,500	110,000,000
				0.26 J			2,300	140,000
			Benzene			μg/Kg-dry		
			Toluene	0.72 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.20 J		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			•					N/A
			isonronyl alcohol	VII)		IIQ/Kg-arv	INI / A	
			isopropyl alcohol	ND 8 2		μg/Kg-dry	N/A	
			рН	8.3		S.U.	N/A	N/A
					1.4			N/A N/A 859,330 N/A

SB-11 / 0'-2'	12/3/2014	12:40	benzo(a)anthracene	9.6		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	11		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	11		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	6.0 J		μg/Kg-dry	148,000	580,000
			chrysene	5.0 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	14		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	0.24 J		μg/Kg-dry	255	140,000
			Toluene	0.43 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND			N/A	450,000 N/A
						μg/Kg-dry S.U.		N/A
			pH *TTPC	8.3	5.41		N/A	
				78.3	5.41	μg/Kg	N/A	859,330
CD 44 / 41 Cl	42/2/2044	12.00	PID	1.4		ppm	N/A	N/A
SB-11 / 4'-6'	12/3/2014	13:00	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	10 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.70 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.3		S.U.	N/A	N/A
			*TTPC		1 22			
				19.4	1.33	µg/Кg	N/A	859,330
CD 42 / 01 21	12/2/2011	12.22	PID	0.2		ppm	N/A	N/A
SB-12 / 0'-2'	12/3/2014	13:30	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg dry μg/Kg-dry	N/A	430,000 N/A
			рН	8.3		μg/ kg-ui y S.U.	N/A	N/A
			*TTPC	6.3 16.3	1.37	3.0. μg/Kg	N/A	859,330
			PID	0.8	1.37			
CD 42 / 21 41	42/2/2044	42.45				ppm	N/A	N/A
SB-12 / 2'-4'	12/3/2014	13:45	benzo(a)anthracene	28		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	30		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	39		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	19		μg/Kg-dry	148,000	580,000
			chrysene	21		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	10		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	26		μg/Kg-dry	109,000	58,000
			Acetone	6.3 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.28 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry μg/Kg-dry	N/A	430,000 N/A
			ISONI ODAL GICOLIOI	ND		μg/ Ng-UI y	IN/A	IN/A
								NI/A
			рН	8.6	0.202	S.U.	N/A	N/A
					0.263			N/A 859,330 N/A

	SB-13 / 0'-2'	12/3/2014	14:25	benzo(a)anthracene	10		μg/Kg-dry	5,210	58,000
				benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
Chrysne   Chry				benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
				benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
March   Marc				chrysene	5.5 J		μg/Kg-dry	4,730	5,800,000
Acctone				dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
Benever				indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
Tollene				Acetone	ND		μg/Kg-dry	2,500	110,000,000
Tollege				Benzene	ND		μg/Kg-dry	255	140,000
Ethylbenzene   ND				Toluene	ND			5,450	
March				Ethylbenzene					
Isporosylbeamen				•					
Part									
SP-14 / 0"   12/3/2014									
Pit				•					
PTPC									
PID						0.520			
Se						0.323			
Benzo Sipyrene	CD 12 / 4 C	12/2/2014	14.40						
Benzo(	3B-13 / 4 -0	12/3/2014	14:40						
Bentollifilluronthere									
Chrysene									
Biberrole   Bibe									
Indenol.									
Acetone									
Benzene				indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
Toluene				Acetone	ND		μg/Kg-dry	2,500	110,000,000
Ethylbenzene				Benzene	ND		μg/Kg-dry	255	140,000
				Toluene	0.40 J		μg/Kg-dry	5,450	820,000
				Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
Isapropylenzene   ND				xylenes, total	ND			10,000	260,000
ND				Isopropylbenzene	ND				
Sopropyl alcohol   ND					ND				450,000
Pi				•					
TTPC									
PID						0.268			
SB-14   0'-2'   12/3/2014   15:15   benzo(a)anthracene   ND   µg/Kg-dry   1,520   5,800   benzo(a)pyrene   ND   µg/Kg-dry   1,520   5,800   5,800   benzo(b)fuloranthene   ND   µg/Kg-dry   148,000   580,000   chrysene   ND   µg/Kg-dry   148,000   580,000   chrysene   ND   µg/Kg-dry   148,000   5,800   indeno(1,2,3-cd)pyrene   ND   µg/Kg-dry   19,000   5,800   indeno(1,2,3-cd)pyrene   ND   µg/Kg-dry   19,000   5,800   indeno(1,2,3-cd)pyrene   ND   µg/Kg-dry   2,500   110,000,000   Benzene   ND   µg/Kg-dry   255   140,000   Toluene   25 J µg/Kg-dry   5,450   820,000   xylenes, total   ND   µg/Kg-dry   10,000   260,000   xylenes, total   ND   µg/Kg-dry   10,000   260,000   xylenes, total   ND   µg/Kg-dry   99   450,000   xylenes, total   ND   µg/Kg-dry   N/A   N/A   N/A   PH   8.4   S.U.   N/A   N/A   N/A   PH   8.4   S.U.   N/A						0.200			
benzo(a)pyrene	SD 14 / 0' 2'	12/2/2014	15.15						
Benzo(b)  Iluoranthene   ND	3B-14 / U-2	12/3/2014	13.13						
Denzo(k)fluoranthene									
Chrysene									
dibenzo(a,h)anthracene   ND									
Indeno(1,2,3-cd)pyrene									
Acetone									
Benzene   ND									
Toluene   25 J   μg/Kg-dry   5,450   820,000     Ethylbenzene   14 J   μg/Kg-dry   5,160   480,000     xylenes, total   ND   μg/Kg-dry   10,000   260,000     Isopropylbenzene   ND   μg/Kg-dry   N/A   270,000     naphthalene   ND   μg/Kg-dry   N/A   N/A     PH   8.4   S.U.   N/A   N/A     *TTPC   23.4   2.84   μg/Kg   N/A   859,330     PID   2.0   ppm   N/A   N/A     FIF   ND   μg/Kg-dry   5,210   58,000     benzo(a)pyrene   ND   μg/Kg-dry   5,210   58,000     benzo(a)pyrene   ND   μg/Kg-dry   1,520   5,800     benzo(b)fluoranthene   ND   μg/Kg-dry   1,520   5,800     benzo(b)fluoranthene   ND   μg/Kg-dry   14,800   580,000     chrysene   ND   μg/Kg-dry   18,400   5,800     dibenzo(a,h)anthracene   ND   μg/Kg-dry   1,520   110,000,000     Benzene   ND   μg/Kg-dry   2,500   110,000,000     Benzene   ND   μg/Kg-dry   5,450   820,000     roluene   0.42 J   μg/Kg-dry   5,450   820,000     Stopropylbenzene   ND   μg/Kg-dry   5,450   480,000     stopropylbenzene   ND   μg/Kg-dry   10,000   260,000     stopropylalcohol   ND   μg/Kg-dry   N/A   N/A     PH   8.2   S.U.   N/A   N/A     *TTPC   3.57   0.273   μg/Kg   N/A   859,330				Acetone	ND		μg/Kg-dry	2,500	110,000,000
Ethylbenzene				Benzene	ND		μg/Kg-dry	255	140,000
Xylenes, total   ND				Toluene	25 J		μg/Kg-dry	5,450	820,000
Isopropylbenzene				Ethylbenzene	14 J		μg/Kg-dry	5,160	480,000
Isopropylbenzene				xylenes, total	ND		μg/Kg-dry	10,000	260,000
ND				Isopropylbenzene	ND			N/A	270,000
isopropyl alcohol   ND									
PH   8.4   S.U.   N/A   N/A   N/A     *TTPC   23.4   2.84   μg/kg   N/A   859,330     PID   2.0   ppm   N/A   N/A   N/A     SB-14 / 2'-4'   12/3/2014   15:35   benzo(a)anthracene   ND   μg/kg-dry   5.210   58,000     benzo(a)pyrene   ND   μg/kg-dry   1,520   5,800     benzo(b)fluoranthene   ND   μg/kg-dry   1,520   58,000     benzo(k)fluoranthene   ND   μg/kg-dry   148,000   580,000     chrysene   ND   μg/kg-dry   148,000   58,000     dibenzo(a,h)anthracene   ND   μg/kg-dry   18,400   5,800     indeno(1,2,3-cd)pyrene   ND   μg/kg-dry   18,400   5,800     Acetone   3.9 J   μg/kg-dry   109,000   58,000     Acetone   3.9 J   μg/kg-dry   2,500   110,000,000     Benzene   ND   μg/kg-dry   5,450   820,000     Ethylbenzene   ND   μg/kg-dry   5,450   820,000     Ethylbenzene   ND   μg/kg-dry   5,160   480,000     xylenes, total   ND   μg/kg-dry   10,000   260,000     Isopropylbenzene   ND   μg/kg-dry   10,000   260,000     Isopropylachol   ND   μg/kg-dry   N/A   270,000     naphthalene   ND   μg/kg-dry   N/A   N/A     pH   8.2   S.U.   N/A   N/A     *TTPC   3.57   0.273   μg/kg   N/A   859,330									
*TTPC 23.4 2.84 μg/kg N/A 859,330 PID 2.0 ppm N/A N/A N/A  SB-14 / 2'-4' 12/3/2014 15:35 benzo(a)anthracene ND μg/kg-dry 5,210 58,000 benzo(b)fluoranthene ND μg/kg-dry 1,520 5,800 benzo(b)fluoranthene ND μg/kg-dry 148,000 580,000 chrysene ND μg/kg-dry 148,000 580,000 dibenzo(k)fluoranthene ND μg/kg-dry 148,000 5,800,000 dibenzo(a,h)anthracene ND μg/kg-dry 18,400 5,800 indeno(1,2,3-cd)pyrene ND μg/kg-dry 109,000 58,000 Acetone 3.9 J μg/kg-dry 109,000 58,000 Toluene 0.42 J μg/kg-dry 2,500 110,000,000 Benzene ND μg/kg-dry 2,500 110,000,000 Ethylbenzene ND μg/kg-dry 5,450 820,000 Toluene 0.42 J μg/kg-dry 5,450 820,000 Ethylbenzene ND μg/kg-dry 5,450 480,000 xylenes, total ND μg/kg-dry 10,000 260,000 isopropylalene ND μg/kg-dry 10,000 260,000 raphthalene ND μg/kg-dry 99 450,000 isopropylalechol ND μg/kg-dry N/A 270,000 isopropylalechol ND μg/kg-dry N/A N/A N/A N/A PH 8.2 S.U. N/A N/A N/A *TTPC 3.57 0.273 μg/kg N/A 859,330									
PID   2.0   ppm   N/A   N/A						2 84			
SB-14 / 2'-4' 12/3/2014 15:35 benzo(a)anthracene ND μg/Kg-dry 5,210 58,000 benzo(a)pyrene ND μg/Kg-dry 1,520 5,800 benzo(b)fluoranthene ND μg/Kg-dry 1,520 5,800 benzo(b)fluoranthene ND μg/Kg-dry 148,000 580,000 chrysene ND μg/Kg-dry 148,000 580,000 dibenzo(a,h)anthracene ND μg/Kg-dry 18,400 5,800 indeno(1,2,3-cd)pyrene ND μg/Kg-dry 109,000 580,000 Acetone 3.9 J μg/Kg-dry 109,000 580,000 Benzene ND μg/Kg-dry 2,500 110,000,000 Benzene ND μg/Kg-dry 2,500 110,000,000 Ethylbenzene ND μg/Kg-dry 5,450 820,000 Ethylbenzene ND μg/Kg-dry 5,160 480,000 xylenes, total ND μg/Kg-dry 10,000 260,000 Isopropylbenzene ND μg/Kg-dry 10,000 260,000 Isopropylbenzene ND μg/Kg-dry 99 450,000 isopropyl alcohol ND μg/Kg-dry N/A N/A N/A PH 8.2 S.U. N/A N/A 859,330						2.04			
benzo(a)pyrene         ND         µg/kg-dry         1,520         5,800           benzo(b)fluoranthene         ND         µg/kg-dry         N/A         58,000           benzo(k)fluoranthene         ND         µg/kg-dry         148,000         580,000           chrysene         ND         µg/kg-dry         1,300         5,800,000           dibenzo(a,h)anthracene         ND         µg/kg-dry         18,400         5,800           indeno(1,2,3-cd)pyrene         ND         µg/kg-dry         109,000         58,000           Acetone         3.9 J         µg/kg-dry         2,500         110,000,000           Benzene         ND         µg/kg-dry         2,500         110,000,000           Benzene         ND         µg/kg-dry         5,450         820,000           Ethylbenzene         ND         µg/kg-dry         5,160         480,000           Ethylbenzene         ND         µg/kg-dry         5,160         480,000           Isopropylbenzene         ND         µg/kg-dry         N/A         270,000           naphthalene         ND         µg/kg-dry         N/A         N/A           pH         8.2         S.U.         N/A         N/A           *TT	CD 14 / 2' 4'	12/2/2014	15.25						
benzo(b)fluoranthene         ND         μg/Kg-dry         N/A         58,000           benzo(k)fluoranthene         ND         μg/Kg-dry         148,000         580,000           chrysene         ND         μg/Kg-dry         4,730         5,800,000           dibenzo(a,h)anthracene         ND         μg/Kg-dry         18,400         5,800           indeno(1,2,3-cd)pyrene         ND         μg/Kg-dry         109,000         58,000           Acetone         3.9 J         μg/Kg-dry         2,500         110,000,000           Benzene         ND         μg/Kg-dry         2,500         110,000,000           Benzene         ND         μg/Kg-dry         5,450         820,000           Ethylbenzene         ND         μg/Kg-dry         5,160         480,000           xylenes, total         ND         μg/Kg-dry         10,000         260,000           Isopropylbenzene         ND         μg/Kg-dry         N/A         270,000           naphthalene         ND         μg/Kg-dry         N/A         N/A           isopropyl alcohol         ND         μg/Kg-dry         N/A         N/A           pH         8.2         S.U.         N/A         N/A	3D-14 / 2 -4	12/5/2014	15.55						
benzo(k)fluoranthene         ND         μg/kg-dry         148,000         580,000           chrysene         ND         μg/kg-dry         4,730         5,800,000           dibenzo(a,h)anthracene         ND         μg/kg-dry         18,400         5,800           indeno(1,2,3-cd)pyrene         ND         μg/kg-dry         109,000         58,000           Acetone         3.9 J         μg/kg-dry         2,500         110,000,000           Benzene         ND         μg/kg-dry         255         140,000           Toluene         0.42 J         μg/kg-dry         5,450         820,000           Ethylbenzene         ND         μg/kg-dry         5,160         480,000           xylenes, total         ND         μg/kg-dry         10,000         260,000           Isopropylbenzene         ND         μg/kg-dry         N/A         270,000           naphthalene         ND         μg/kg-dry         N/A         N/A           pH         8.2         S.U.         N/A         N/A           *TTPC         3.57         0.273         μg/kg         N/A         859,330									
chrysene         ND         μg/Kg-dry         4,730         5,800,000           dibenzo(a,h)anthracene         ND         μg/Kg-dry         18,400         5,800           indeno(1,2,3-cd)pyrene         ND         μg/Kg-dry         109,000         58,000           Acetone         3.9 J         μg/Kg-dry         2,500         110,000,000           Benzene         ND         μg/Kg-dry         255         140,000           Toluene         0.42 J         μg/Kg-dry         5,450         820,000           Ethylbenzene         ND         μg/Kg-dry         5,160         480,000           xylenes, total         ND         μg/Kg-dry         10,000         260,000           Isopropylbenzene         ND         μg/Kg-dry         N/A         270,000           naphthalene         ND         μg/Kg-dry         99         450,000           isopropyl alcohol         ND         μg/Kg-dry         N/A         N/A           PH         8.2         S.U.         N/A         N/A           *TTPC         3.57         0.273         μg/Kg         N/A         859,330									
dibenzo(a,h)anthracene         ND         μg/Kg-dry         18,400         5,800           indeno(1,2,3-cd)pyrene         ND         μg/Kg-dry         109,000         58,000           Acetone         3.9 J         μg/Kg-dry         2,500         110,000,000           Benzene         ND         μg/Kg-dry         255         140,000           Toluene         0.42 J         μg/Kg-dry         5,450         820,000           Ethylbenzene         ND         μg/Kg-dry         5,160         480,000           xylenes, total         ND         μg/Kg-dry         10,000         260,000           Isopropylbenzene         ND         μg/Kg-dry         N/A         270,000           naphthalene         ND         μg/Kg-dry         99         450,000           isopropyl alcohol         ND         μg/Kg-dry         N/A         N/A           PH         8.2         S.U.         N/A         N/A           *TTPC         3.57         0.273         μg/Kg         N/A         859,330									
indeno(1,2,3-cd)pyrene         ND         μg/Kg-dry         109,000         58,000           Acetone         3.9 J         μg/Kg-dry         2,500         110,000,000           Benzene         ND         μg/Kg-dry         255         140,000           Toluene         0.42 J         μg/Kg-dry         5,450         820,000           Ethylbenzene         ND         μg/Kg-dry         5,160         480,000           xylenes, total         ND         μg/Kg-dry         10,000         260,000           Isopropylbenzene         ND         μg/Kg-dry         N/A         270,000           naphthalene         ND         μg/Kg-dry         99         450,000           isopropyl alcohol         ND         μg/Kg-dry         N/A         N/A           pH         8.2         S.U.         N/A         N/A           *TTPC         3.57         0.273         μg/Kg         N/A         859,330				•					
Acetone       3.9 J       μg/Kg-dry       2,500       110,000,000         Benzene       ND       μg/Kg-dry       255       140,000         Toluene       0.42 J       μg/Kg-dry       5,450       820,000         Ethylbenzene       ND       μg/Kg-dry       5,160       480,000         xylenes, total       ND       μg/Kg-dry       10,000       260,000         Isopropylbenzene       ND       μg/Kg-dry       N/A       270,000         naphthalene       ND       μg/Kg-dry       99       450,000         isopropyl alcohol       ND       μg/Kg-dry       N/A       N/A         PH       8.2       S.U.       N/A       N/A         *TTPC       3.57       0.273       μg/Kg       N/A       859,330								18,400	5,800
Benzene         ND         μg/Kg-dry         255         140,000           Toluene         0.42 J         μg/Kg-dry         5,450         820,000           Ethylbenzene         ND         μg/Kg-dry         5,160         480,000           xylenes, total         ND         μg/Kg-dry         10,000         260,000           Isopropylbenzene         ND         μg/Kg-dry         N/A         270,000           naphthalene         ND         μg/Kg-dry         99         450,000           isopropyl alcohol         ND         μg/Kg-dry         N/A         N/A           PH         8.2         S.U.         N/A         N/A           *TTPC         3.57         0.273         μg/Kg         N/A         859,330				indeno(1,2,3-cd)pyrene					
Toluene 0.42 J μg/Kg-dry 5,450 820,000 Ethylbenzene ND μg/Kg-dry 5,160 480,000 xylenes, total ND μg/Kg-dry 10,000 260,000 Isopropylbenzene ND μg/Kg-dry N/A 270,000 naphthalene ND μg/Kg-dry 99 450,000 isopropyl alcohol ND μg/Kg-dry N/A N/A PH 8.2 S.U. N/A N/A *TTPC 3.57 0.273 μg/Kg N/A 859,330				Acetone					
Ethylbenzene       ND       μg/Kg-dry       5,160       480,000         xylenes, total       ND       μg/Kg-dry       10,000       260,000         Isopropylbenzene       ND       μg/Kg-dry       N/A       270,000         naphthalene       ND       μg/Kg-dry       99       450,000         isopropyl alcohol       ND       μg/Kg-dry       N/A       N/A         pH       8.2       S.U.       N/A       N/A         *TTPC       3.57       0.273       μg/Kg       N/A       859,330				Benzene	ND		μg/Kg-dry	255	140,000
xylenes, total       ND       μg/Kg-dry       10,000       260,000         Isopropylbenzene       ND       μg/Kg-dry       N/A       270,000         naphthalene       ND       μg/Kg-dry       99       450,000         isopropyl alcohol       ND       μg/Kg-dry       N/A       N/A         pH       8.2       S.U.       N/A       N/A         *TTPC       3.57       0.273       μg/Kg       N/A       859,330				Toluene	0.42 J		μg/Kg-dry	5,450	820,000
xylenes, total       ND       μg/Kg-dry       10,000       260,000         Isopropylbenzene       ND       μg/Kg-dry       N/A       270,000         naphthalene       ND       μg/Kg-dry       99       450,000         isopropyl alcohol       ND       μg/Kg-dry       N/A       N/A         pH       8.2       S.U.       N/A       N/A         *TTPC       3.57       0.273       μg/Kg       N/A       859,330				Ethylbenzene	ND			5,160	480,000
Isopropylbenzene         ND         μg/Kg-dry         N/A         270,000           naphthalene         ND         μg/Kg-dry         99         450,000           isopropyl alcohol         ND         μg/Kg-dry         N/A         N/A           pH         8.2         S.U.         N/A         N/A           *TTPC         3.57         0.273         μg/Kg         N/A         859,330				xylenes, total	ND			10,000	260,000
naphthalene       ND       μg/Kg-dry       99       450,000         isopropyl alcohol       ND       μg/Kg-dry       N/A       N/A         pH       8.2       S.U.       N/A       N/A         *TTPC       3.57       0.273       μg/Kg       N/A       859,330									
isopropyl alcohol ND μg/Kg-dry N/A N/A pH 8.2 S.U. N/A N/A *TTPC 3.57 0.273 μg/Kg N/A 859,330									
pH 8.2 S.U. N/A N/A *TTPC 3.57 0.273 μg/Kg N/A 859,330				•					
*TTPC 3.57 0.273 $\mu g/Kg$ N/A 859,330									
				-		N 272			
DID 0.7 nnm N/A N/A				PID	0.7	0.273	μg/ κg ppm	N/A N/A	859,330 N/A

SB-15 / 2'-4'	12/3/2014	17:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	20		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.35 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.1		S.U.	N/A	N/A
			*TTPC	13.7	0.550	μg/Kg	N/A	859,330
			PID	ND		ppm	N/A	N/A
SB-15 / 26'-28'	12/4/2014	9:15	benzo(a)anthracene	11		μg/Kg-dry	5,210	58,000
,	, ,		benzo(a)pyrene	12		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	15		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	6.0 J		μg/Kg-dry	148,000	580,000
			chrysene	6.4 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	13		μg/Kg-dry	109,000	58,000
			Acetone	11		μg/Kg-dry μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry μg/Kg-dry	2,500	140,000
			Toluene	0.43 J			5,450	820,000
				0.43 J ND		μg/Kg-dry		
			Ethylbenzene			μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.3		S.U.	N/A	N/A
/!!			*TTPC	ND	0.287	μg/Kg	N/A	859,330
SB-15 / 28'-30'	12/5/2014	9:25	PID	ND		ppm	N/A	N/A
SB-16 / 0'-2'	12/4/2014	11:15	benzo(a)anthracene	16		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	13		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	14		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	5.5 J		μg/Kg-dry	148,000	580,000
			chrysene	7.8 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	10		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.4		S.U.	N/A	N/A
			*TTPC	720	23.7	μg/Kg	N/A	859,330
			PID	1.2		ppm	N/A	N/A
SB-16 / 8'-10'	12/4/2014	11:42	benzo(a)anthracene	8.8		μg/Kg-dry	5,210	58,000
• -			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	5.3 J		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry μg/Kg-dry	109,000	58,000
			Acetone	20		μg/Kg-dry μg/Kg-dry	2,500	110,000,000
			Benzene	2.8 J		μg/Kg-dry μg/Kg-dry	2,500	140,000
			Toluene	2.8 J		μg/Kg-dry μg/Kg-dry	5,450	820,000
				0.26 J			5,450 5,160	480,000
				U.ZDJ		μg/Kg-dry	2,100	480,000
			Ethylbenzene				10 000	260,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			xylenes, total Isopropylbenzene	ND ND		μg/Kg-dry μg/Kg-dry	N/A	270,000
			xylenes, total Isopropylbenzene naphthalene	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	N/A 99	270,000 450,000
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	N/A 99 N/A	270,000 450,000 N/A
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH	ND ND ND ND 7.8		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry S.U.	N/A 99 N/A N/A	270,000 450,000 N/A N/A
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND ND	0.302	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	N/A 99 N/A	270,000 450,000 N/A

CD 17 / 0! 3!	12/4/2014	15.15	hanza(a)anthrasana	ND		ua/Va day	F 210	F9.000
SB-17 / 0'-2'	12/4/2014	15:15	benzo(a)anthracene benzo(a)pyrene	ND ND		μg/Kg-dry μg/Kg-dry	5,210 1,520	58,000 5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg dry μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	40		μg/Kg-dry	2,500	110,000,000
			Benzene	13		μg/Kg-dry	255	140,000
			Toluene	7.6		μg/Kg-dry	5,450	820,000
			Ethylbenzene	2.0 J		μg/Kg-dry	5,160	480,000
			xylenes, total	3.0 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	0.22 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	7.1		S.U.	N/A	N/
			*TTPC	ND	0.312	μg/Kg	N/A	859,33
			PID	ND		ppm	N/A	N/A
SB-17 / 26'-28'	12/4/2014	17:20	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	36		μg/Kg-dry	2,500	110,000,000
			Benzene	44		μg/Kg-dry	255	140,000
			Toluene	18		μg/Kg-dry	5,450	820,000
			Ethylbenzene	4.1 J		μg/Kg-dry	5,160	480,000
			xylenes, total	7.5		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	0.59 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.3		S.U.	N/A	N/A
			*TTPC	ND	0.272	μg/Kg	N/A	859,33
			PID	1.1		ppm	N/A	N/A
SB-18 / 0'-2'	12/5/2014	11:20	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	50		μg/Kg-dry	2,500	110,000,000
			Benzene	8.8		μg/Kg-dry	255	140,000
			Toluene	4.6 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	1.0 J		μg/Kg-dry	5,160	480,000
			xylenes, total	2.0 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.6		S.U.	N/A	N/
			*TTPC	10.7	0.302	μg/Kg	N/A	859,33
			PID	0.2		ppm	N/A	N/A
SB-18 / 32'-34'	12/5/2014	13:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	12 J		μg/Kg-dry	2,500	110,000,000
			Benzene	22		μg/Kg-dry	255	140,000
			Toluene	11		μg/Kg-dry	5,450	820,000
			Ethylbenzene	3.0 J		μg/Kg-dry	5,160	480,000
			xylenes, total	4.2 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	0.35 J		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.1		S.U.	N/A	N/A
			P					
			*TTPC	ND	0.275	μg/Kg	N/A	859,330

SB-19/0'-2'	12/8/2014	8:05	benzo(a)anthracene	17		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	19		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	22		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	11		μg/Kg-dry	148,000	580,000
			chrysene	16		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	N/A		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	20		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.29 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.6		β, Ng-ury S.U.	N/A	N/A
			*TTPC	1.14	0.299	μg/Kg	N/A	859,330
			PID	ND	0.233		N/A	N/A
CD 10/2! 4!	12/0/2014	8:20	benzo(a)anthracene			ppm μg/Kg-dry		
SB-19/ 2'-4'	12/8/2014	6.20		ND			5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.52 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.6		S.U.	N/A	N/A
			*TTPC	6.65	0.296	μg/Kg	N/A	859,330
			PID		0.290			
CD 20 / 01 21	12/0/2014	0.45		0.1		ppm	N/A	N/A
SB-20 / 0'-2'	12/8/2014	9:45	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	65		μg/Kg-dry	2,500	110,000,000
			Benzene	3.4 J		μg/Kg-dry	255	140,000
			Toluene	1.8 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.37 J		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	, 99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.6		S.U.	N/A	N/A
			*TTPC	0.343	0.289	μg/Kg	N/A	859,330
			PID	ND	0.203		N/A	N/A
SB-20 / 32'-34'	12/8/2014	12:25	benzo(a)anthracene			ppm		
3B-2U / 32 -34	12/8/2014	12:25		ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	19		μg/Kg-dry	2,500	110,000,000
			Benzene	49		μg/Kg-dry	255	140,000
			Toluene	26		μg/Kg-dry	5,450	820,000
								480,000
			Ethylbenzene	5.4		μg/Kg-dry	5,160	400,000
			Ethylbenzene xylenes, total					
			xylenes, total	13		μg/Kg-dry	10,000	260,000
			xylenes, total Isopropylbenzene	13 0.75 J		μg/Kg-dry μg/Kg-dry	10,000 N/A	260,000 270,000
			xylenes, total Isopropylbenzene naphthalene	13 0.75 J ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99	260,000 270,000 450,000
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	13 0.75 J ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99 N/A	260,000 270,000 450,000 N/A
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH	13 0.75 J ND ND 7.9	በ ንፖባ	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry S.U.	10,000 N/A 99 N/A N/A	260,000 270,000 450,000 N/A N/A
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	13 0.75 J ND ND	0.270	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99 N/A	260,000 270,000 450,000 N/A

SB-21/0'-2'	12/8/2014	15:24	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
05 21, 0 2	12,0,201	13.2	benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	20		μg/Kg-dry	2,500	110,000,000
			Benzene	5.7		μg/Kg-dry	255	140,000
			Toluene	2.8 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.60 J		μg/Kg-dry	5,160	480,000
			xylenes, total	0.96 J		μg/Kg-dry μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry μg/Kg-dry	N/A	270,000
							99	
			naphthalene	ND		μg/Kg-dry		450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH ************************************	7.5	0.202	S.U.	N/A	N/A
			*TTPC	0.355	0.293	μg/Kg	N/A	859,330
			PID	0.3		ppm	N/A	N/A
SB-21/ 10'-12'	12/8/2014	16:45	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	8.9		μg/Kg-dry	2,500	110,000,000
			Benzene	3.2 J		μg/Kg-dry	255	140,000
			Toluene	1.2 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.21 J		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.8		μ _g / kg-ui y S.U.	N/A	N/A
			*TTPC		0.201			
				ND	0.281	μg/Kg	N/A	859,330
CD 22/01/21	42/0/2044	0.40	PID	0.9		ppm	N/A	N/A
SB-22/ 0'-2'	12/9/2014	9:40	benzo(a)anthracene	10		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	20		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	29		μg/Kg-dry	2,500	110,000,000
			Benzene	2.4 J		μg/Kg-dry	255	140,000
			Toluene	4.6 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	1.3 J		μg/Kg-dry	5,160	480,000
			xylenes, total	2.7 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.4		S.U.	N/A	N/A
			*TTPC	16.2	2.65	μg/Kg	N/A	859,330
			PID	0.2	2.03	ppm	N/A	N/A
SB-22/6'-8'	12/9/2014	10:45	benzo(a)anthracene	ND				
3D-22/ 0-0	12/9/2014	10.45				μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	13		μg/Kg-dry	2,500	110,000,000
			Benzene	2.2 J		μg/Kg-dry	255	140,000
			Toluene	0.78 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			Littyibetizetie					
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
				ND ND			10,000 N/A	260,000 270,000
			xylenes, total Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			xylenes, total Isopropylbenzene naphthalene	ND ND		μg/Kg-dry μg/Kg-dry	N/A 99	270,000 450,000
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	N/A 99 N/A	270,000 450,000 N/A
			xylenes, total Isopropylbenzene naphthalene	ND ND	0.268	μg/Kg-dry μg/Kg-dry	N/A 99	270,000 450,000

SB-22/ 0'-2'	12/9/2014	9:40	benzo(a)anthracene	13		μg/Kg-dry	5,210	58,000
DUPE - 2			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	19		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	23		μg/Kg-dry	2,500	110,000,000
			Benzene	2.8 J		μg/Kg-dry	255	140,000
			Toluene	4.4 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.95 J		μg/Kg-dry	5,160	480,000
			xylenes, total	2.1 J		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
							99	
			naphthalene	ND		μg/Kg-dry		450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH *******	8.3	• • • •	S.U.	N/A	N/A
			*TTPC	70.5	2.66	μg/Kg	N/A	859,330
SB-23/ 0'-2'	12/9/2014	14:35	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	3.1 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND				
						μg/Kg-dry	255	140,000
			Toluene	0.39 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.0		S.U.	N/A	N/A
			*TTPC	5.23	0.303	μg/Kg	N/A	859,330
			PID	ND		ppm	N/A	N/A
SB-23 / 18'-20'	12/10/2014	13:15	benzo(a)anthracene	65		μg/Kg-dry	5,210	58,000
02 20 / 20 20	,,	20.20	benzo(a)pyrene	46		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	65		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	29		μg/Kg-dry	148,000	580,000
			chrysene	58		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	15		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	33		μg/Kg-dry	109,000	58,000
			Acetone	20		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.33 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry μg/Kg-dry	N/A	450,000 N/A
			pH *TTDC	7.8	0.204	S.U.	N/A	N/A
			*TTPC	ND	0.301	μg/Kg	N/A	859,330
			PID	0.3		ppm	N/A	N/A
SB-24/ 0'-2'	12/9/2014	15:35	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry μg/Kg-dry	2,500	110,000,000
			Benzene	ND			2,500 255	140,000
						μg/Kg-dry		
			Toluene	0.38 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Icanranylhanzana	ND		μg/Kg-dry	N/A	270,000
			Isopropylbenzene					
			naphthalene	ND		μg/Kg-dry	99	450,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			naphthalene isopropyl alcohol	ND ND	1.34	μg/Kg-dry μg/Kg-dry	99 N/A	450,000 N/A

SB-24/ 8'-10'								
	12/9/2014	17:00	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	9.0 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND			2,500	
						μg/Kg-dry		140,000
			Toluene	0.51 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.1		S.U.	N/A	N/A
			*TTPC	ND	0.267	μg/Kg	N/A	859,330
			PID	3.1		ppm	N/A	N/A
SB-25 / 0'-2'	12/10/2014	11:00	benzo(a)anthracene	17		μg/Kg-dry	5,210	58,000
22 23 7 0 2	12, 10, 201	11.00	benzo(a)pyrene	19		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	30		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	13		μg/Kg-dry	148,000	580,000
			chrysene	31		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	15		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	30 J			99	450,000
			•			μg/Kg-dry		
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.7		S.U.	N/A	N/A
			*TTPC	11.1	0.267	μg/Kg	N/A	859,330
			PID	0.5		ppm	N/A	N/A
B-25/ 12'-14'	12/10/2014	12:30	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND			109,000	58,000
						μg/Kg-dry		
			Acetone	7.4 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.83 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.0		S.U.	N/A	, N/A
			*TTPC	0.336	0.278	μg/Kg	N/A	859,330
			PID	1.6	0.270	ppm	N/A	N/A
				1.0			IN/A	IN/ <i>F</i>
SD 26/01 21	12/10/2014	45.05						
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene	ND ND		μg/Kg-dry μg/Kg-dry	5,210 1,520	58,000 5,800
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000 5,800
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene	ND ND		μg/Kg-dry μg/Kg-dry	5,210 1,520	58,000 5,800 58,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,210 1,520 N/A	58,000 5,800 58,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene	ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,210 1,520 N/A 148,000 4,730	58,000 5,800 58,000 580,000 5,800,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene	ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400	58,000 5,800 58,000 580,000 5,800,000 5,800
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene	ND ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000	58,000 5,800 58,000 580,000 5,800,000 5,800
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone	ND ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500	58,000 5,800 58,000 580,000 5,800,000 5,800 58,000 110,000,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene	ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255	58,000 5,800 58,000 580,000 5,800,000 5,800 110,000,000 140,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450	58,000 5,800 58,000 580,000 5,800,000 58,000 110,000,000 140,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160	58,000 5,800 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000 480,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000	58,000 5,800 58,000 580,000 5,800,000 58,000 110,000,000 140,000 820,000 480,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160	58,000 5,800 58,000 580,000 5,800,000 58,000 110,000,000 140,000 820,000 480,000 260,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000	58,000 5,800 58,000 580,000 5,800,000 58,000 110,000,000 140,000 820,000 480,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A	58,000 5,800 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000
SB-26/ 0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99 N/A	58,000 5,800 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A
SB-26/0'-2'	12/10/2014	15:05	benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND N	2.68	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A	58,000 5,800 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000

SB-26/6'-7'	12/10/2014	15:40	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.2		S.U.	N/A	N/A
			*TTPC	ND	0.264	μg/Kg	N/A	859,330
			PID	11.7		ppm	N/A	N/A
SB-27/ 0'-2'	12/10/2014	16:00	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
, -	, -, -		benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry μg/Kg-dry	2,500	110,000,000
			Benzene	ND			2,300	140,000
			Toluene	0.29 J		μg/Kg-dry		
						μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.2		S.U.	N/A	N/A
			*TTPC	35.3	2.69	μg/Kg	N/A	859,330
			PID	0.7		ppm	N/A	N/A
SB-27/ 2'-4'	12/10/2014	16:05	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	4.5 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.34 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.8		S.U.	N/A	N/A
			*TTPC	0.645	0.270	μg/Kg	N/A	859,330
			PID	0.3		ppm	N/A	N/A
SB-28/ 0'-2'	12/11/2014	9:15	benzo(a)anthracene	11		μg/Kg-dry	5,210	58,000
	,,		benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	7.2		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND ND			10,000 N/A	270,000
				ND ND		μg/Kg-dry	N/A 99	450,000
			naphthalene			μg/Kg-dry		
			isopropyl alcohol	ND o 7		μg/Kg-dry	N/A	N/A
			pH *TTDC	8.7 1.75	0.205	S.U.	N/A	N/A
			*TTPC	1.75	0.295	μg/Kg	N/A	859,330
			PID	1.1		ppm	N/A	N/A

SB-28/ 10'-12'	12/11/2014	10:15	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
,	, ,		benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	4.7 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	430,000 N/A
			рН	8.4		S.U.	N/A	N/A
			*TTPC	ND	0.275	μg/Kg	N/A	859,330
			PID	1.4	0.273			
SB-29/ 0'-2'	12/11/2014	10.30	benzo(a)anthracene			ppm	N/A	N/A
3B-29/ U-2	12/11/2014	10:28		ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pН	9.0		S.U.	N/A	N/A
			*TTPC	52.4	2.63	μg/Kg	N/A	859,330
			PID	0.4		ppm	N/A	N/A
SB-29/ 28'-30'	12/11/2014	12:55	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
02 23, 20 00	,,		benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND			109,000	58,000
			Acetone			μg/Kg-dry		
				8.6 J		μg/Kg-dry	2,500	110,000,000
			Benzene	0.77 J		μg/Kg-dry	255	140,000
			Toluene	0.64 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.4		S.U.	N/A	N/A
			*TTPC	0.567	0.267	μg/Kg	N/A	859,330
-			PID	ND		ppm	N/A	N/A
SB-30/ 0'-2'	12/11/2014	12:00	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	19		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.26 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry μg/Kg-dry	10,000 N/A	270,000
			naphthalene	ND ND			N/A 99	
			isopropyl alcohol			μg/Kg-dry		450,000
			ISOULODAL 91COUOL	ND		μg/Kg-dry	N/A	N/A
							A1 / A	
			рН	8.4	0.201	S.U.	N/A	N/A
					0.264		N/A N/A N/A	N/A 859,330 N/A

SB-30/ 10'-12'	12/11/2014	12:45	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
•			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	35		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.49 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	0.49 J ND				
						μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.1		S.U.	N/A	N/
			*TTPC	ND	0.284	μg/Kg	N/A	859,33
			PID	3.2		ppm	N/A	N/
SB-31 / 0'-2'	12/11/2014	13:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry μg/Kg-dry	109,000	58,000
			Acetone	ND ND		μg/Kg-dry μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	7.0		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	60		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	9.1		S.U.	N/A	N/
			*TTPC	14.9	1.35	μg/Kg	N/A	859,33
			PID	45.1		ppm	N/A	N/A
SB-31 / 2'-4'	12/11/2014	14:10	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
,			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.1		S.U.	N/A	N/.
			*TTPC	0.647	0.295	μg/Kg	N/A	859,33
			PID	135	3.233	ppm	N/A	N/.
SB-32 / 0'-2'	12/11/2014	15:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
36-32 / 0 -2	12/11/2014	13.30						
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.5		S.U.	N/A	N/
						1	A1 / A	0=0.00
			*TTPC	106	6.40	μg/Kg	N/A	859,330

SB-32 / 30'-31'								
	12/12/2014	12:30	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	0.52 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH	8.1		S.U.	N/A	N/A
			*TTPC	ND	0.287	μg/Kg	N/A	859,330
			PID	6.0		ppm	N/A	N/A
SB-33 / 0'-2'	12/15/2014	9:20	benzo(a)anthracene	12		μg/Kg-dry	5,210	58,000
	,,		benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND ND			109,000	58,000 58,000
						μg/Kg-dry		
			Acetone	3.6 J		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.7		S.U.	N/A	N/A
			*TTPC	2,080	75.0	μg/Kg	N/A	859,330
			PID	3.0		ppm	N/A	N/A
SB-33 / 0'-2'	12/15/2014	9:10	benzo(a)anthracene	16		μg/Kg-dry	5,210	58,000
OUP - 3			benzo(a)pyrene	33		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	29		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	21		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	30		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	
							2,300	110,000,000
			Benzene	ND		ug/Kg-drv		
			Benzene Toluene	ND ND		μg/Kg-dry ug/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	255 5,450	140,000 820,000
			Toluene Ethylbenzene	ND ND		μg/Kg-dry μg/Kg-dry	255 5,450 5,160	140,000 820,000 480,000
			Toluene Ethylbenzene xylenes, total	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	255 5,450 5,160 10,000	140,000 820,000 480,000 260,000
			Toluene Ethylbenzene xylenes, total Isopropylbenzene	ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	255 5,450 5,160 10,000 N/A	140,000 820,000 480,000 260,000 270,000
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	255 5,450 5,160 10,000 N/A 99	140,000 820,000 480,000 260,000 270,000 450,000
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A
			Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH	ND ND ND ND ND ND	20.0	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry S.U.	255 5,450 5,160 10,000 N/A 99 N/A N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A
CD 22 / 01 401	42/45/2044	0.55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC	ND ND ND ND ND ND 7.7 225	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene	ND ND ND ND ND ND 7.7 225	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210	140,000 820,000 480,000 260,000 450,000 N/A N// 859,330
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(a)pyrene	ND ND ND ND ND 7.7 225 750	30.6	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry S.U. μg/Kg μg/Kg-dry μg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520	140,000 820,000 480,000 260,000 450,000 N/A N/, 859,33 58,000 5,800
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene	ND ND ND ND ND 7.7 225 750 550 700	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A	140,000 820,000 480,000 260,000 450,000 N/A N/, 859,33 58,000 5,800
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene	ND ND ND ND ND 7.7 225 750 550 700 310	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000	140,000 820,000 480,000 260,000 450,000 N/A N// 859,330 58,000 580,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene	ND ND ND ND ND 7.7 225 750 550 700 310 740	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000 4,730	140,000 820,000 480,000 260,000 450,000 N/A N// 859,330 58,000 5,800 580,000 5,800,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400	140,000 820,000 480,000 260,000 450,000 N/A N// 859,330 58,000 580,000 5,800,000 5,800,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000	140,000 820,000 480,000 260,000 270,000 450,000 N/A N// 859,330 58,000 58,000 580,000 5,800,000 5,800,000 5,800,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3	30.6	μg/Kg-dry μμσ/Kg-dry μμσ/Kg-dry μμσ/Κg-dry μμσ/Κg-dry μμσ/Κg-dry μμσ/Κg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500	140,000 820,000 480,000 260,000 270,000 450,000 N/A N// 859,330 58,000 580,000 5,800,000 5,800,000 5,800,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 58,000 580,000 5,800,000 5,800 58,000 110,000,000 140,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3	30.6	μg/Kg-dry μμσ/Kg-dry μμσ/Kg-dry μμσ/Κg-dry μμσ/Κg-dry μμσ/Κg-dry μμσ/Κg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 58,000 580,000 5,800,000 5,800 58,000 110,000,000 140,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255	140,000 820,000 480,000 260,000 270,000 450,000 N/A N// 859,330 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND ND	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 58,000 580,000 5,800,000 5,800,000 110,000,000 140,000 820,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND ND	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160	140,000 820,000 480,000 260,000 270,000 450,000 N/A N// 859,330 58,000 58,000 5,800,000 5,800,000 110,000,000 140,000 480,000 260,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND ND ND ND ND	30.6	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry S.U. µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000	140,000 820,000 480,000 260,000 270,000 450,000 N/A N// 859,330 58,000 580,000 5,800,000 5,800,000 110,000,000 140,000 820,000 260,000 270,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND ND ND ND ND ND ND ND	30.6	µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 58,000 58,000 5,800,000 5,800,000 110,000,000 140,000 820,000 480,000 270,000 450,000
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(a)pyrene benzo(b)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND	30.6	µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99 N/A	140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 58,000 5,800 58,000 5,800,000 5,800,000 110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A
SB-33 / 8'-10'	12/15/2014	9:55	Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol pH *TTPC benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND ND ND ND ND 7.7 225 750 550 700 310 740 79 280 7.3 ND ND ND ND ND ND ND ND	30.6	µg/Kg-dry	255 5,450 5,160 10,000 N/A 99 N/A N/A N/A N/A 5,210 1,520 N/A 148,000 4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99	110,000,000 140,000 820,000 480,000 260,000 270,000 450,000 N/A N/A 859,330 58,000 58,000 580,000 5,800,000 5,800 110,000,000 140,000 820,000 480,000 270,000 450,000 N/A N/A 859,330

SB-34 / 0'-2'	12/15/2014	8:33	benzo(a)anthracene	15		μg/Kg-dry	5,210	58,000
•			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			• • • • •					110,000,000
			Acetone	ND		μg/Kg-dry	2,500	
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.8		S.U.	N/A	N/A
			*TTPC	94.5	13.4	μg/Kg	N/A	859,33
			PID	ND		ppm	N/A	N/A
B-34 / 8'-10'	12/15/2014	9:12	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
5 54 / 6 16	12/13/2014	5.12	benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene					58,000
				ND		μg/Kg-dry	N/A	
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.7		S.U.	N/A	N/
			*TTPC	ND	0.274	μg/Kg	N/A	859,33
			PID	0.2		ppm	N/A	N/A
B-35 / 0'-2'	12/15/2014	9:55	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
•			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			* *	ND			4,730	
			chrysene			μg/Kg-dry		5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND			99	450,000
			·			μg/Kg-dry		
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			pH *******	8.1		S.U.	N/A	N/
			*TTPC	6,470	727	μg/Kg	N/A	859,33
			PID	0.7		ppm	N/A	N/A
B-35 / 2'-4'	12/15/2014	10:12	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	41		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
							N/A 99	
			naphthalene	ND		μg/Kg-dry		450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	7.9		S.U.	N/A	N/
			·					
			*TTPC	3,070	298	μg/Kg	N/A	859,330

SB-36 / 0'-2'	12/15/2014	11:40	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
36-30 / 0 -2	12/13/2014	11.40	benzo(a)pyrene	ND		μg/Kg-dry μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,00
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,00
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,00
			xylenes, total	ND		μg/Kg-dry	10,000	260,00
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,00
			naphthalene	ND		μg/Kg-dry	99	450,00
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/
			рН	8.6		S.U.	N/A	N,
			*TTPC	2,870	264	μg/Kg	N/A	859,33
			PID	10.3		ppm	N/A	N/A
SB-36 / 4'-6'	12/15/2014	12:15	benzo(a)anthracene	26		μg/Kg-dry	5,210	58,00
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,80
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,00
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,00
			chrysene	6.6 J		μg/Kg-dry	4,730	5,800,00
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,80
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,00
			Acetone	20		μg/Kg-dry	2,500	110,000,00
			Benzene	ND		μg/Kg-dry	255	140,00
			Toluene	ND		μg/Kg-dry	5,450	820,00
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,00
			xylenes, total	ND		μg/Kg-dry	10,000	260,00
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,00
			naphthalene	1.5 J		μg/Kg-dry	99	450,00
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/
			рН	8.1		S.U.	N/A	N,
			*TTPC	8.91	1.47	μg/Kg	N/A	859,33
			PID	8.9		ppm	N/A	N/
SB-37 / 0'-2'	12/15/2014	13:50	benzo(a)anthracene	17		μg/Kg-dry	5,210	58,00
			benzo(a)pyrene	32		μg/Kg-dry	1,520	5,80
			benzo(b)fluoranthene	31		μg/Kg-dry	N/A	58,00
			benzo(k)fluoranthene	20		μg/Kg-dry	148,000	580,00
			chrysene	6.7 J		μg/Kg-dry	4,730	5,800,00
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,80
			indeno(1,2,3-cd)pyrene	33		μg/Kg-dry	109,000	58,00
			Acetone	28		μg/Kg-dry	2,500	110,000,00
			Benzene	ND		μg/Kg-dry	255	140,00
			Toluene	ND		μg/Kg-dry	5,450	820,00
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,00
			xylenes, total	ND		μg/Kg-dry	10,000	260,00
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,00
			naphthalene	ND		μg/Kg-dry	99	450,00
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/
			рН	8.2		S.U.	N/A	N,
			*TTPC	96.3	13.1	μg/Kg	N/A	859,3
			PID	2.3		ppm	N/A	N/
SB-37 / 2'-4'	12/15/2014	14:00	benzo(a)anthracene	14		μg/Kg-dry	5,210	58,00
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,80
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,00
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,00
			chrysene	ND		μg/Kg-dry	4,730	5,800,00
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,80
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,00
			Acetone	620 J		μg/Kg-dry	2,500	110,000,00
			Benzene	ND		μg/Kg-dry	255	140,00
			Toluene	13		μg/Kg-dry	5,450	820,00
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,00
			xylenes, total	ND		μg/Kg-dry	10,000	260,00
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,00
			naphthalene	ND		μg/Kg-dry	99	450,00
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/
			рН	6.3		S.U.	N/A	N,
			*TTPC	N/A		μg/Kg	N/A	859,33

SB-38 / 0'-2'	12/15/2014	15:40	PID benzo(a)anthracene	1.4 ND		ppm	N/A	N/A
SB-38 / 0°-2°	12/15/2014	15:40		KII I				
						μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	29		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	1.7 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			•					
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.5		S.U.	N/A	N/
			*TTPC	13.3	1.31	μg/Kg	N/A	859,33
			PID	3.6		ppm	N/A	N/A
SB-38 / 2'-4'	12/15/2014	15:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
•			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	17		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	1.1 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND			5,160	
						μg/Kg-dry		480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.3		S.U.	N/A	N/A
			*TTPC	13.6	2.72	μg/Kg	N/A	859,33
			PID	1.9		ppm	N/A	N/A
SB-39 / 0'-2'	12/15/2014	15:15	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
56-39 / 0 -2	12/13/2014	15.15						
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	7.4		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	1.4 J		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	8.3		S.U.	N/A	N/
			*TTPC	22.5	2.69		N/A N/A	859,33
					2.03	μg/Kg		
/-! -!			PID	10.6		ppm	N/A	N/A
B-39 / 2'-4'	12/15/2014	15:25	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			•					
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	5.0		μg/Kg-dry	2,500	110,000,00
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
								-,
			Ethylhenzene	ND		Πδ/Κδ-ιιιν	5.160	<b>4</b> 80 00
			Ethylbenzene	ND ND		μg/Kg-dry	5,160 10,000	
			xylenes, total	ND		μg/Kg-dry	10,000	260,00
			xylenes, total Isopropylbenzene	ND ND		μg/Kg-dry μg/Kg-dry	10,000 N/A	260,000 270,000
			xylenes, total Isopropylbenzene naphthalene	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99	260,000 270,000 450,000
			xylenes, total Isopropylbenzene	ND ND		μg/Kg-dry μg/Kg-dry	10,000 N/A	260,000 270,000 450,000
			xylenes, total Isopropylbenzene naphthalene	ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99	260,000 270,000 450,000 N/A
			xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND ND ND ND	2.82	μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	10,000 N/A 99 N/A	480,000 260,000 270,000 450,000 N/A N/, 859,33

SB-40 / 0'-2'	42/45/2044	46.20	Leave to Veralle and a second	4.6		. // 1 .	F 240	50
	12/15/2014	16:30	benzo(a)anthracene benzo(a)pyrene	16 ND		μg/Kg-dry μg/Kg-dry	5,210 1,520	58,0 5,0
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,
			chrysene	4.8 J		μg/Kg-dry	4,730	5,800,
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,5
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,
			Acetone	18		μg/Kg-dry	2,500	110,000,
			Benzene	ND		μg/Kg-dry	255	140,
			Toluene	ND		μg/Kg-dry	5,450	820,
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,
			xylenes, total	ND		μg/Kg-dry	10,000	260,
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,
			naphthalene	ND		μg/Kg-dry	99	450,
			isopropyl alcohol	ND		μg/Kg-dry	N/A	
			рН	8.6		S.U.	N/A	
			*TTPC	68.3	13.0	μg/Kg	N/A	859
			PID	3.2		ppm	N/A	
3-40 / 2'-6'	12/15/2014	16:50	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580
			chrysene	ND		μg/Kg-dry	4,730	5,800
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58
			Acetone	24		μg/Kg-dry	2,500	110,000
			Benzene	ND		μg/Kg-dry	255	140
			Toluene	1.5 J		μg/Kg-dry	5,450	820
			Ethylbenzene	ND		μg/Kg-dry	5,160	480
			xylenes, total	ND		μg/Kg-dry	10,000	260
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270
			naphthalene	ND		μg/Kg-dry	99	450
			isopropyl alcohol	ND		μg/Kg-dry	N/A	
			pH	8.5		S.U.	N/A	
			*TTPC	9.09	2.63	μg/Kg	N/A	859
3-41 / 0'-2'	12/16/2014	8:10	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580
			chrysene	ND		μg/Kg-dry	4,730	5,800
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58
			Acetone	12		μg/Kg-dry	2,500	110,000
			Benzene	ND		μg/Kg-dry	255	140
			Toluene	1.8 J		μg/Kg-dry	5,450	820
			Ethylbenzene	ND		μg/Kg-dry	5,160	480
			xylenes, total	ND		μg/Kg-dry	10,000	260
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270
			naphthalene	ND		μg/Kg-dry	99	450
			isopropyl alcohol	ND		μg/Kg-dry	N/A	
			рН	8.7		S.U.	N/A	
			*TTPC	3.61	0.263	μg/Kg	N/A	859
			PID	1.7	-	ppm	N/A	
3-41 / 2'-4'	12/16/2014	8:40	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58
' <del>'</del>	· •		benzo(a)pyrene	ND		μg/Kg-dry	1,520	5
7 71 / 2 7			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58
71/2 7			Delizo(D)Huoranthene					
71/2 7			benzo(k)fluoranthene	ND		μg/kg-arv	148,000	580
41/2 4			benzo(k)fluoranthene	ND		μg/Kg-dry μg/Kg-dry		
41/2 4			` '	ND ND		μg/Kg-dry	4,730	5,800
41,2 4			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene	ND ND ND		μg/Kg-dry μg/Kg-dry	4,730 18,400	5,800 5
71,2 7			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene	ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry	4,730 18,400 109,000	5,800 5 58
71,2 7			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone	ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	4,730 18,400 109,000 2,500	5,800 5 58 110,000
71/2 7			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene	ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	4,730 18,400 109,000 2,500 255	5,800 5 58 110,000 140
71,2 7			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene	ND ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450	5,800 5 58 110,000 140 820
741/2 4			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene	ND ND ND ND ND ND ND		μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry μg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450 5,160	5,800 5 58 110,000 140 820 480
741/2 4			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total	ND		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450 5,160 10,000	5,800 5 58 110,000 140 820 480 260
3 41 / 2 4			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene	ND		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A	5,800 5 58 110,000 140 820 480 260
741/2 4			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99	5,800 5 58 110,000 140 820 480 260 270 450
5 -11/2 -			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene isopropyl alcohol	ND N		µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99 N/A	5,800 5 58 110,000 140 820 480 260 270 450
3 11 / 2 1			benzo(k)fluoranthene chrysene dibenzo(a,h)anthracene indeno(1,2,3-cd)pyrene Acetone Benzene Toluene Ethylbenzene xylenes, total Isopropylbenzene naphthalene	ND N	0.273	µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry µg/Kg-dry	4,730 18,400 109,000 2,500 255 5,450 5,160 10,000 N/A 99	580, 5,800, 58, 58, 110,000, 140, 820, 480, 260, 270, 450,

SB-42 / 0'-2'	12/16/2014	8:15	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	28		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	6.7		S.U.	N/A	N/A
			*TTPC	ND	0.293	μg/Kg	N/A	859,330
			PID	0.1		ppm	N/A	N/A
SB-42 / 0'-2'	12/16/2014	8:15	benzo(a)anthracene	9.3		μg/Kg-dry	5,210	58,000
DUPE 4			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry	N/A	N/A
			рН	6.1		S.U.	N/A	, N/,
			*TTPC	0.396	0.310	μg/Kg	N/A	859,33
SB-42 / 2'-4'	12/16/2014	8:25	benzo(a)anthracene	ND		μg/Kg-dry	5,210	58,000
,			benzo(a)pyrene	ND		μg/Kg-dry	1,520	5,800
			benzo(b)fluoranthene	ND		μg/Kg-dry	N/A	58,000
			benzo(k)fluoranthene	ND		μg/Kg-dry	148,000	580,000
			chrysene	ND		μg/Kg-dry	4,730	5,800,000
			dibenzo(a,h)anthracene	ND		μg/Kg-dry	18,400	5,800
			indeno(1,2,3-cd)pyrene	ND		μg/Kg-dry	109,000	58,000
			Acetone	ND		μg/Kg-dry	2,500	110,000,000
			Benzene	ND		μg/Kg-dry	255	140,000
			Toluene	ND		μg/Kg-dry	5,450	820,000
			Ethylbenzene	ND		μg/Kg-dry	5,160	480,000
			xylenes, total	ND		μg/Kg-dry	10,000	260,000
			Isopropylbenzene	ND		μg/Kg-dry μg/Kg-dry	N/A	270,000
			naphthalene	ND		μg/Kg-dry μg/Kg-dry	99	450,000
			isopropyl alcohol	ND		μg/Kg-dry μg/Kg-dry	N/A	430,000 N/A
			рН	5.7		μg/ kg-ury S.U.	N/A N/A	N/A
			*TTPC	ND	0.304	3.0. μg/Kg	N/A N/A	859,330
			PID		0.304			
			FIU	0.4		ppm	N/A	N/A

## NOTE:

J = Indicates the result is between the Method of Detection Limit and LOQ

LOQ = Limit of Quantitation

ND = Not Detected

^{*} TTPC Soil Screening Levels are preliminary and based on published Koc values and EPA Guidelines for Sediment Equilibrium Partitioning.

## **EISENBARTH PAD WATER SAMPLING DATA**

	Collection	Collection					Ohio EPA Ground Water Drinking
Sample ID	Date	Time	Analytes	Results	LOQ	Units	Water
							Standards(μg/L)
GP 08	12/17/2014	12:45	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	3.4 J		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	7.09		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1

GP 19	12/17/2014	12:15	benzo(a)anthracene	N/A		μg/L	0.034
			benzo(a)pyrene	N/A		μg/L	0.2
			benzo(b)fluoranthene	N/A		μg/L	N/A
			benzo(k)fluoranthene	N/A		μg/L	0.34
			chrysene	N/A		μg/L	3.4
			dibenzo(a,h)anthracene	N/A		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	N/A		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	1.8 J		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	N/A		μg/L	N/A
			рН	N/A		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1
GP 22	12/16/2014	15:55	benzo(a)anthracene	N/A		μg/L	0.034
			benzo(a)pyrene	N/A		μg/L	0.2
			benzo(b)fluoranthene	N/A		μg/L	N/A
			benzo(k)fluoranthene	N/A		μg/L	0.34
			chrysene	N/A		μg/L	3.4
			dibenzo(a,h)anthracene	N/A		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	N/A		μg/L	0.034
			Acetone	3.8 J		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	N/A		μg/L	N/A
			рН	N/A		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1

GP 23	12/17/2014	10:00	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	6.66		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1
GP 24	12/17/2014	9:15	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	7.02		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1

GP 26	12/17/2014	8:10	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	6.20		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1
GP 28	12/16/2014	13:55	benzo(a)anthracene	N/A		μg/L	0.034
			benzo(a)pyrene	N/A		μg/L	0.2
			benzo(b)fluoranthene	N/A		μg/L	N/A
			benzo(k)fluoranthene	N/A		μg/L	0.34
			chrysene	N/A		μg/L	3.4
			dibenzo(a,h)anthracene	N/A		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	N/A		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	N/A		μg/L	N/A
			рН	N/A		S.U.	6.5-8.5
			*TTPC	RP	RP	μg/L	1

SB 15W	12/18/2014	14:00	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	7.30		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1
SB 20W	12/18/2014	12:00	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	0.63 J		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	0.88 J		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	7.10		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1

SB 21W	12/18/2014	13:20	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	0.72 J		μg/L	5
			Toluene	0.41 J		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	1.0 J		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	6.97		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1
SB 31W	12/18/2014	8:50	benzo(a)anthracene	ND		μg/L	0.034
			benzo(a)pyrene	ND		μg/L	0.2
			benzo(b)fluoranthene	ND		μg/L	N/A
			benzo(k)fluoranthene	ND		μg/L	0.34
			chrysene	ND		μg/L	3.4
			dibenzo(a,h)anthracene	ND		μg/L	0.0034
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034
			Acetone	ND		μg/L	14000
			Benzene	ND		μg/L	5
			Toluene	ND		μg/L	1000
			Ethylbenzene	ND		μg/L	700
			xylenes, total	1.0 J		μg/L	10000
			Isopropylbenzene	ND		μg/L	450
			naphthalene	ND		μg/L	40000
			isopropyl alcohol	ND		μg/L	N/A
			рН	6.89		S.U.	6.5-8.5
			*TTPC	ND	0.1	μg/L	1

SB 20W	12/18/2014	12:10	benzo(a)anthracene	ND		μg/L	0.034	
DUP-5			benzo(a)pyrene	ND		μg/L	0.2	
			benzo(b)fluoranthene	ND		μg/L	N/A	
			benzo(k)fluoranthene	ND		μg/L	0.34	
			chrysene	ND		μg/L	3.4	
			dibenzo(a,h)anthracene	ND		μg/L	0.0034	
			indeno(1,2,3-cd)pyrene	ND		μg/L	0.034	
			Acetone	ND		μg/L	14000	
			Benzene	0.66 J		μg/L	5	
			Toluene	ND		μg/L	1000	
			Ethylbenzene	ND		μg/L	700	
				xylenes, total	ND		μg/L	10000
			Isopropylbenzene	ND		μg/L	450	
			naphthalene	0.79 J		μg/L	40000	
			isopropyl alcohol	ND		μg/L	N/A	
			рН	7.06		S.U.	6.5-8.5	
			*TTPC	ND	0.1	μg/L	1	

## NOTE:

J = Indicates the result is between the Method of Detection Limit and LOQ

LOQ = Limit of Quantitation

ND = Not Detected

RP = Results Pending

N/A= Not Analyzed due to Insufficent Quantity of Water

